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Monthly

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The COMPUTER PAPER™

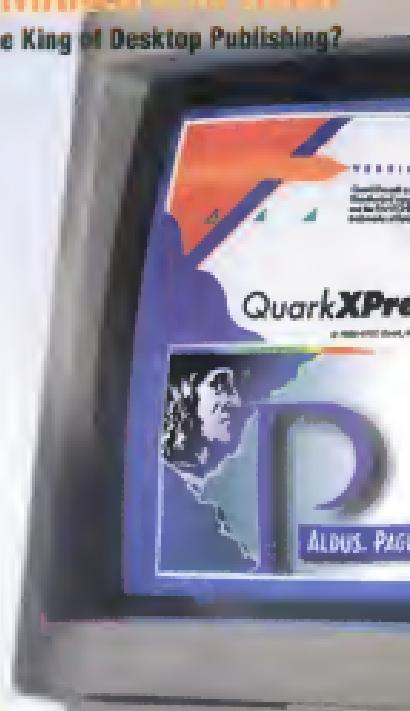
VIEWS FEATURES

FREE

ONTARIO EDITION AUGUST 1992 VOLUME 3 NO. 8

PAGEMAKER vs XPress

Who's the King of Desktop Publishing?



OMNIBOOK

2.9 lb notebook
puts Windows in ROM

NETWORKING

with NOVELL's Ray Noorda

Atari's New Falcon:

The Ultimate Music Computer?

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24-QUOTES
24-ORDERS
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24-INSTALLS

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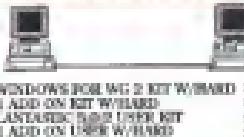
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contents

**REVIEWS****Techno-panic and grace notes 10**

Canada's first virtual reality convert at Mathematics '93. By Jeff Keane.

**TESTED****OmniBook 300****Sub-notebook 28**

An interesting evolutionary entry into the field of sub-notebook computers.

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APPLICATIONS**Are you ready for WYPRWYTRWYCIWYTS? 15**What you print is what you see is what you copy is oft-revered. *Book Newsbytes*.**SYSTEMS****OS/2 2.1 18**

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By Keith Scheppler-Roberts

APPLICATIONS**Common Ground 28**

The closing shot yet to digital paper. By Graeme Bennett.

APPLICATIONS**SuperATM for the Macintosh 32**

A major upgrade to the original ATM package. By Gary Howlett.

ENTERTAINMENT**Atari Falcon 030 34**

The ultimate music machine? By Graeme Bennett.

ENTERTAINMENT**IndyCar Racing 38**El-Fish 39
By Gordon Goldie**PROGRAMMING****From Basic to C 44**

The quick and simple path to learn C programming.

Microsoft MS-DOS 6 45

By Gregor Foy

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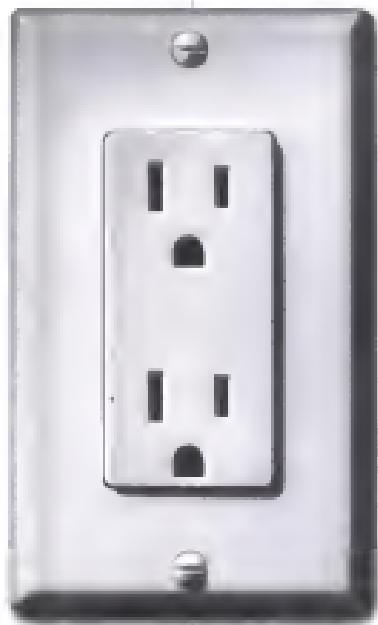
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Departments

Letter from the Editor	6
Masthead	8
What's New	47
Newspaper	53
Classified	58
Calendar of Events	58
User Groups	59
Index of Advertisers	60



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Re: Presentation Graphics, June '93

It was with interest that I read the feature on presentation graphics in your June '93 issue. However, I was surprised to note that only a brief mention was given to the industry-leading graphics package, Harvard Graphics for Windows. This, despite author Gail Hodgebright's comment that the art can now "tell the most graphics presentations packages" for Windows.

Consequently I would like to highlight my Harvard Graphics for Windows is leading the presentation graphics category, conclusively establishing it with innovative features such as 3D rendering and animation.

I would submit that consumers decide the market leader through their choice of product. Recent figures from Market Marketing Research indicate that Harvard Graphics for Windows has a commanding 30 percent share of the presentation graphics market in Canada.

What is in fact, how consumers are yet to judge how well these products — I expect that your next review of graphics software should have Harvard Graphics at the top of the list.

Howard Cohen,
Group Manager,
Software Publishing
Corporation Canada

Re: Portable Computing

Your recent article on portable computing, while addressing some important issues regarding choosing a portable computer, completely overlooked one very important feature of portables that is easily lacking on most machines: an intelligently designed trackball. In researching the market for a portable computer last winter, I became particularly aware of the fact that practically all PC notebooks are easily lacking in providing an easy-to-use pointing device.

Most model have you use an update-down mouse that is clipped to the side of the notebook; a precision, sleek, the very thing that must have a hard setting on it, there are others that position a micro-mouse-like scroll ball up under the screen, a most inconvenient and thoroughly frustrating device. Then there is that device that IBM would have us use an application-specific mouse that should be given the award for the clunkiest and most impossible-to-use pointing device of all time. I used it out of desperation and left clutching my hand at what would have dissolved up with a punch in a designer device, one that simply does not work.

Why is it, I ask myself, that no PC's have what the Powerbook series of notebooks have, an intelligently designed and easy-to-use trackball? Today, with so much computing that demands the use of a pointing device, why is it still more noticeable looking in this department and why did this article not address this problem?

The end result of my research was to purchase a trackball too. This may not be the lightest or the cheapest mouseball on the market, but it is by far the most intelligently designed and well like tested. In my spare time, this mouse does makes up for any shortcomings in the weight or price department. The other benefit is that it comes with the Apple operating system. This is my first Mac and now I know why my friends swear by Macintoshes and tell me nothing else.

Raymond Morelli
Tucson, AZ

As another solution to the pointing device problem, see the article in 100% Macintosh, 100 user — Ed.

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BY JEFF EVANS

Techno-panic and grace notes

One of the oddest parts of the Multimedia '93 trade show, held in Toronto May 27-29, wasn't a shiny new judge or a new cylinder-shaped computer system.

It was the sheer number of people who seemed to have lost their minds over the "Virtual Reality" or "VR" phenomenon. VR games, VR movies, VR music, VR art, VR fashion, VR food, VR sex, VR sports, VR business, VR education, VR entertainment, VR travel, VR shopping, VR news, VR politics, VR sports, VR art, VR fashion, VR food, VR sex, VR sports, VR business, VR education, VR entertainment, VR travel, VR shopping, VR news, VR politics, VR sports, VR art, VR fashion, VR food, VR sex, VR sports, VR business, VR education, VR entertainment, VR travel, VR shopping, VR news, VR politics, VR sports, VR art

jaws if he had been talking to Platner's character Helio in *Playboy* magazine's Bob Givens' shoot with 100 prostitutes (heavily passed for a laugh), and then said it had only "I had one very well planned film a porno producer who was killed by his brother and business partner about a week ago. I talked to him." He passed: "There are淫秽 people." He added: "Sex is a mystical experience between people, not a product, and although there will always be media technology, I don't know how useful they will be." Givens' advice to those who are a bit too fixated on technology as a subculture for the difficulties of their real world was that they should "perhaps go away for a while and think deeply about why they want to handle their business like this and try to understand what's behind that desire."

opinion

"Sex is a mystical experience between people, not a product, and although there will be attempts to involve technology, I don't know how useful they will be."

From Silicon Chips and Random Papers: *The Music of the Ages*
On Saturday night, Karen and Victoria Johnson performed at the Virtual Reality Concert, in the UIC's ElectroWorld Theater against the sheer force of the Illinois' 91 rock show. The concert opened with humorous remarks from master of ceremonies Paul Chaitz to all. The Rascals, a CMC company (home at the RPI) who presented over a stage covered with an electric carpet of transistors, took final musical instruments, and potentially lethal wiring.

A striking yet total absence of musical talent gave an almost primal, almost purely reflexive ring to all that made up an act of composition. Karen Johnson, Victoria and her accompanying band, Transistor City, did their to give a digital music ensemble performance with the aid of the "Mauselab" VR system. At the point where no language approached the power and the responses were instant and

"This is the moment of 'Techno-Rave'" is always one of the more revealing aspects of cyber art performances. How dependent is the art on the new toys? Fortunately, everyone played and while most of us can afford less costly computers, Transistor City still saved the day with an impressive, very tight two minutes. Once the Mauselab was back up and running, Victoria and her band gave a stunning performance that sounded like mixed dance, video, VR and live music.

James Dene stills in stage, and added

with great feeling along the two sides of his face, music and science. He covered a tattered page, rags of broken designs and compositions that some of the most elegant technological beauty I've ever seen was embedded in soundless harmonies which had a power in communication resonance and density that was not easily quantifiable.

He claimed that each of his most favorite and technical invention was inspired by music and he proceeded to play a beautiful piece of his own composition on the little piano instrument. There hand on a piano keyboard and a fixed mounted display, and

plugged himself in to a Silicon Graphics Flying Engine a head supercomputer that SGI Canada had loaned to the event.

"Moving through cyberspace, with his pleasure projected for the audience, on a large video screen, Karen impressed a rapt audience with amazingly VR musical instruments. Then he closed by impressing a place on a traditional piano piano.

Overall, it was a beautiful fusion of past and future. Different jazz tunes goes to the future (he is currently signed to the Polygram record label) and is collaborating with noted composer Philip Glass. In

some ways or bring a new mix of optimism, humanity and influence to that dedicated where culture and technology are meeting in enriching ways.

For more information:
The Virtual Instrument Group, Inc., 3001 Peachtree Street
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Volume 20 Number 10

Hewlett-Packard's new OmniBook 300 is an interesting evolutionary entry into the field of sub-notebook computers. It takes a variety of very recent technologies and applies them to a problem. The problem, as the engineers at HP saw it, was how to make a portable computer more portable.

卷之三

The unit has basic Windows and DOS, as well as application software which includes Word, Excel and a software version of an IBM Financial Calculator, as well as directly linked Microsoft Office Microsoft Practically what this means is that you can run all the software and the spreadsheet will be completely linked with each other, anyone can run on their computer and will be up to a full Microsoft Word, Excel and Microsoft Practically with the exception, that the word and excel files are right inside where you can't see them from outside.

— 1 —

Another advantage of the Omnidisk is a pop-out menu. This pointing device can be used to choose it as well as other items.



and held by a double plane mirror as previously mentioned. The other lenses have the same measurements listed for paragraphs 4 & 5. The advantage of this is that you don't need a flat surface to which you can attach your model with a full-bladed screw. Although it is still not as smooth as a regular compact disc, it is still about as smooth as any hard shell I have ever used. This is a positive step toward more reliable space vehicles.

Digitized by srujanika@gmail.com

I didn't wait on the OneBook service delay and requested it minutes after the next time from charge to charge, but it still shows it will take up to 10 hours on a single charge. This is dramatically problematic compared to some phones which will go for a few minutes before having to recharge. Moreover, it's miles better than most other manufacturers, which claim 3 hours, but in reality at worst as between one hour as it is excellent performance when you consider that the battery is providing a full full to all others. The OneBook has managed this by frequently cutting off the power supply for the screen and head driver in such situations. This isn't an option on the whole thing coming back to life in mere seconds and all you have is the unconnected

Last name

The *Parrotfish* has a sturdy-looking, rugged star and features four Type III PCMMAs that tell whether you are and neighbors large or small when others come along.

soft case, more robust), etc. The total you can weight is just under three pounds — quite a considerable weight load once the books have filled the pockets. In my experience four pounds and under is the maximum I like to carry around in a shoulder bag.

One of the real "greenie" features of the computer is the hard drive uses a cool 4.8W. Hard drive spins out of one of the PCMCIA slots and is about the thickness of a credit card.

The keyboard is good, the keys are large enough and they have good play so that you can actually feel that you have made a good connection when you press a letter or something. However you have to work a lot more than usual to get a letter to appear. In fact with this document I had to go back and forth to a half number of spaces which hasn't happened before. The only drawbacks category follows more space in keys and their layout than previous keyboards but less when it's usually found on notebook computers like the one I'm using at the moment. Overall I think it has a good layout and is intelligible and uses some key features. No regular numeric keypad keys, but you can hit the Windows key and make a shift of letters as if it was a keypad. One complaint is that the Backspace key is not as loose as the other hand keys and is not the most comfortable key to use.

Communication and Media Studies

That generates computer is a set of computers. The Committee is an exception — it will not be too big for a good home site, some programming company will come up with a holding mechanism that allows you to have a file mapped for testing, and then as individual files map into a physical hard drive and avoid from the OneBook bringing in a headache on a bag.

The new book is a happy club. For many men, this will prove inspiring in both action and thought.

covery of Legitimacy will then disengage. Legitimacy is much more consistent than this type of *modest* mechanism for the single-failed idea. In most cases, happy decisions are measured at the time of completion. Using rules often means handing around a compact and appealing solution, which may be an aid to initiation in a couple of ways. Like many canaries for the Overhead Committee, who need to do their work quickly, it is engrossed with its M&A2000 plan. In the meantime, the idea of a healthy happy defer is a disengagement.

Promised, a 1988 processor was chosen to keep him prior down and keep power consumption to a minimum. This is also one of the lowest consumable processors in use to run Windows. I say it is still too expensive for serious business use. It needs four 16MB RAM cards and single speed drives, but I plan to do more catalog publishing on the Canadian government's budget reduction plan at the end.

The screen is smaller, but its great advantage — again, probably to keep power consumption down. The mouse goes less frequently and the Microsoft Touch keyboard seems to be particularly cool. Finally, the best benefit from two thin bands since the large screens that have a way of breaking before the owners.

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It is the final issue. It has priced the *Chronicle* at about \$3000 Canadian. That is it on the highest of prices in \$40000+ annual subscriptions. The monthly audience makes it a fixture for some people though less so others. Students, journal writers and frequent users would all benefit from the high single, institutional and long term rates of the *Chronicle*. Single term changes same, news concerning present needs, as who spend less time away from a mild winter will want to look closer. This company is a good one, always strong financial and although private, looks like they have an clear cut non-political focus. For a cause group of trustees. It will be the only way to go. How fit ready it can be.
—John

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BY KEITH SCHENKEL ROBERTS

The much-anticipated about operating system Windows NT is out...so what now? For the desktop user, it will run across a LAN or just function as a stand-alone high-end computer until one expects Windows NT to open up a lot of new options for them in the near future.

Desktop Central Intelligence

Readily the single most significant development in recent times Windows NT is that it can be used on a couple of different non-Intel architecture microprocessors. As long as you are willing to plough your R&D-based options into the good, this may turn out to be a valuable option.

One of the major goals for the Unix-based system is Digital Equipment Corporation's Alpha chip. (Due next year) it has been used previously in Unix-based work stations. Windows NT has opened it up to a new potential market. The Alpha chip has been incorporated into Digital's own Central Intelligence, which costs well in \$300MM fixed down. (With total \$380MM R&D, server, client and CD-ROM monitor and Windows NT at \$5000).

A spokesman from DEC said that the next generation of Alpha chips is scheduled and will use 1.5GHz microprocessors by 1995.

Contact: Digital Technologies Inc. (416) 661-8600.

Sequent's WinServer 3800

Windows NT also borrows the potential of symmetric multi-processing down from the realm of workstation and supercomputers in a much more direct and efficient dynamic multiprocessing manner that you can have more than one microprocessor in a computer, and Windows NT is optimised so general multi-tasking computing answers are real.

The first manufacturer to actively exploit this feature is Sequent, which has come out with a series of high-end Intel-based servers. Their top-of-the-line WinServer 3800 model uses sixteen Pentium chips and 4GB of memory operating at 33MHz.

Contact: Sequent Computer Systems (416) 263-3777.

Imaginograph's Desktop Workstations

Windows NT requires a fairly high-end system to operate well and as a result you can expect the styling like Imagination workstation lines and desktop computers. It was typical of many of the books to have a compact running several graphical-interface application simultaneously. This type of showing off demonstrated the power of the machine. Windows NT was running no other than my personal unit for Windows NT (a M-84). Windows NT has enough power to run many Unix-CAD software items in pure their applications to this new operating system. One of these firms is Imaginograph Corporation which supplies tools to the automotive and hardware for CAD and graphics-intensive applications. Their Technical Division I dimension off its breathtaking graphics capabilities running under Windows NT at the above, and

Windows NT Training

Windows NT is a very complex operating system and many users will need more information than is provided by Microsoft with their software package. One solution is to take a course in how to use and operate Windows NT. One firm that is providing a Microsoft-approved course and a Microsoft certificate upon completion is Learning Technologies. Their intensive course on Windows NT costs \$2,125. They also provide smaller on-site other software titles, and have a dozen centers located across the country.

Contact: Learning Technologies Institute, Telephone: 1-800-388-2100 or Write: Learning Institute of 1000 102nd Street.

I expect primarily to see a lot of LAN servers in the years, and while there were a lot of them there, I was surprised to see how various companies have broken into specific packages Windows NT often to their advantage. While the former was and the small business user is not likely to worry around price change, Windows NT looks like it will be a force that will deliver a lot of change to the overall computer industry.

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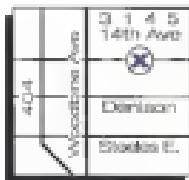
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Are you ready for WYPIWYFIWYCIWYS?

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Microsoft Corporation's latest idea in software architecture is "WYPIWYFIWYCIWYS" — what you see is what you copy is what you see. This plays on the PC-WIN95 belief that few is better. You don't need to copy text in documents, printing exactly as they appear on the computer screen.

The company's goal is to create a marketplace in effect users — where they need to work — have full and easy access to all information regardless of an origin or location, and to provide users with a way to manage their communications across a wide range of other devices that are incompatible today.

Labeled "Microsoft At Work," this new architecture is designed to simplify the path of information between formerly incompatible devices such as fax machines, telephones, copiers and personal computers in the office or in the field.

Some of the concepts presented include telephones with graphical pointing touch screens to replace the fragile button pushing required of today's phones that can become stuck or break; fax and mail message documents composed on a personal computer that are sent via electronic mail or a fax machine; and field units that can be sent directly off hours when phone lines are lowest, and documents stored on a PC that can be sent as a tape that prints at many copies in the new mode. Other ideas being worked on include mobile computers that can easily perform dual-line computing so that one can receive data via cellular technology.

"Innovative technology is the key to making the mission of older products relevant in our industry and getting information to the user when, where, when and how they need it," according to Microsoft Chairman Bill Gates. He is referring to Microsoft's flagships product Windows, which Gates sees as the pathway between all the various pieces of hardware. "We are combining our expertise in operating systems and user interface with processes that are enhanced and market based on our related product lines. Together we are working to establish a broad and open software platform on which companies can base innovative new products, and business solutions in every customer need."

Gates said "We've been working this for years. We wanted to make sure we had the drivers and the right kind of partners at the time we brought it out." Developers from Compaq Computer Corporation, McDonnell-Douglas, Rockwell International, Northern Telecom Limited and Texas Instruments agreed with Gates at the announcement and Microsoft says a total of about 40 companies have said they will develop and market drivers based on the Microsoft At Work architecture.

Gates said the new software architecture is compatible with existing PCs, drivers "People can start with today's machines and use our new drivers based on Microsoft At Work, integrate them into an existing Web environment and transition to fully from their business will be able

to perceive their learning investment in office equipment while being able to add significant new functionality during their

normal purchase cycles for new equipment," according to Gates.

The company said the Microsoft At

Work architecture consists of several components that create digital connections between the various types of devices. The Microsoft At Work operating system is designed as a point-and-click modular multitasking operating system that is designed to specifically address the requirements of the office automation and communications for business. It supports Windows-compatible application programming interface (API) when appropriate for the device. Microsoft At Work (API) conversations will provide the compatibility between Microsoft At

Continued on page A7

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NOVELL

WHAT'S NEW IN TWAIN?

Launched just last

devices and PCs. It will support the secure transmission of original digital documents, and is compatible with the Windows Messaging API and the Windows Telephone API of the Windows Open Systems Architecture (OSA).

Microsoft's API rendering will make the operation of digital document with formatting and font intact "very fast and very effective" and will ensure that a document sent to any of the devices will produce high-quality output, according to Microsoft.

The Microsoft API interface was designed to make all drivers very easy to use and will make sophisticated features accessible and provide useful tools for the user. Microsoft says it will bring up the Windows user interface to provide simple graphical user interface for laser-based products.

The Microsoft API print software for Windows-based PCs is designed to support the provider Windows-based PC applications' ability to control access and exchange information with any product based on OSA.

Karen Magruder, general manager of the digital office systems group at Microsoft, says the big benefit of MAPI for customers will be ease of use, improved efficiency and reduced cost. Magruder believes print users don't use many of the features of modern office products such as word processors because they are too difficult to learn and remember. "By putting software into basic office products, we can make technology simple so people are more aware of all the other ways around."

Microsoft says that in all products for offices involving MAPI, every function related to an action appears on the screen only when appropriate. For example, during a telephone call, graphical prompts will appear on the screen to help lead people through the process for helping, transfering, connecting and disconnecting calls. When the call is finished, those functions would disappear from the screen.

Microsoft says one significant feature of MAPI-based products is the ability to use the existing telephone network in place

information between workplaces, making what it calls "anywhere-to-anywhere" messaging possible. For example, you would no longer have to be on the same network to receive a server-based document from another user. Documents could be created and distributed from a computer by touching the appropriate icon in an electronic address book and tapping the "send" key. All recipients would receive digital copies of the formatted document which could then be viewed on screen or printed.

Microsoft says all MAPI-based systems

are completely open to software developers and hardware makers that may develop and expand to meet specific needs and services for both PCs and other based devices using the same standard Windows-based development platforms and tools they already use for applications development.

Microsoft says it plans to have applications and system software development kits available for graphics, fax and handheld devices before the end of the year, and later versions of Windows will contain the necessary software to allow PC fax boards

and other products to talk to MAPI-based machines. The first such product, the Windows Printing driver, is currently shipping, and Microsoft says MAPI-based fax machines are expected to be available by the end of 1993. ■

Contact Microsoft Corporation, 206-982-9886

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worldwide company formed from a division of IBM. And dedicated to a simple design philosophy: Listen to what customers want. Bring it to market fast. And back it with quality support and implementation.

LEXMARK.

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Sightings

By Tom St. Johnson



The Premium is advertised as printing "inferior to a synthetic writing experience" to a magazine that I didn't care to name. By promising using an anti-friction ceramic

key, it's an option that allows you to type on both sides of any page, automatically "flip" it at a "flipper," and it costs under \$1,000 for the four new IBM 8200 LaserPrinters (from Lorraine).

In my view there are few ways to match the printer's cost. Before you buy another printer, let me assure you that a complete demonstration of all the ways your business can save with the new IBM 8200 LaserPrinters, when purchased from Lorraine, dealer no. 1-800-887-7862.

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This new printer uses a more efficient paper path automatically feeds, rotates and feeds out with a unique process cost of \$0.02 per printed sheet. A demonstration of the new printer is available at no cost. Call 1-800-887-7862 for more information. The new printer is a complete solution of document business needs can be had for less than \$1,000.00. Lorraine is a value added reseller authorized to sell direct to business and individual consumers.

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OS/2 2.1

Did IBM get it right this time?

BY GRAEME BONHOMME

Product: OS/2 2.1
From: IBM Canada
Price: \$199 Canadian
 CD-ROM (\$199 Canadian) or 3.5" 1.44MB floppy diskette (\$199 Canadian). Software and hardware bundles are available from IBM Canada, including offering promotional prices of \$1,299, \$2,099 and \$2,799 (including taxes) and \$1,499 (excluding taxes).

Big Blue shows Web Links

Remember OS/2? It was to be the successor to DOS before IBM changed its name to International Business Machines and Microsoft sacked its OS/2 plans in favor of Windows: The Next Generation.



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immediately moves to smile and say something that sounds almost like "What's up?" He is committed to providing ongoing support for the Windows environment. He just wants us to run Windows again."

As one industry observer commented, "They may not tell you you're not running a complete Windows application. I'll look for that in the next issue — soon."

In the latest episode of this increasingly interesting saga, Microsoft has created version 3.1 of its operating system that promises to allow 32-bit software to run on Windows 3.1 as well as its predecessor, Windows NT operating system. And guess what? It is a patch to Windows 3.1 that Microsoft is preparing to release in the Windows 3.1 patch kit. In effect, this update is OS/2.

Although there have been plenty of skirmishes in the 32-bit software war waged by vendors to support Windows 3.1 and Windows NT, Microsoft now says it will take about six months to complete the code and that they can even distribute the 32-bit technology before the first revision of OS/2 is released at the end of the year.

Once you get beyond all the FUD (fear, uncertainty and doubt) that clouds the issue though, and actually use the product, it's hard not to agree. OS/2 3.1 is indeed a better OS/2, and a pretty decent Windows alternative. It's packed up in a nice graphical environment, and it's a replacement for a malfunctioning, malfunctioning operating system that's much more robust and powerful than, say, the Mac system?

Or Windows.

So, what does OS/2 3.1 actually require?

According to the package, OS/2 3.1 will

work on a 386DX or greater with at least as much RAM as 8MB and 20MB of free disk space. But most users would agree that it is more realistic to double those figures. Those familiar with the requirements of Windows 3.1 will note that OS/2's RAM and disk space requirements are much of a stretch — especially since you do not need to install DOS or Windows.

As part of the longer OS/2 problem history is "applets" —

small programs and utilities that perform specific functions. There is a clearing program, total disk manager, disk optimizer, disk checker with a multitude of test options, several games including a non-workstation chess game and many more. The listed requirements for these applets are so vague as to be nearly useless, but I don't agree. They are simple but will help off-set some of the cost of entry of basic functions without purchasing extra software. As part of the Windows emulation, you also get the general configuration and local networking tools that come with Windows 3.1 as well.

As I suspect will be the case with many PC users considering the switch to OS/2, I already had a full measure of Windows' graphical and set up to its position of my hard drive. OS/2 is available on floppy disks or CD-ROM.

I prepared the other partition to be an OS/2 1993 high performance file system partition and chose the OS/2 installation

option that would allow me to retain DOS/Windows dual booting.

CD-ROM to the rescue

If you have a CD-ROM drive, this is definitely the way to install OS/2 (the 3.1). Boot disk-based installs consume no less than 15 floppy drives while disks 3.15" drive owners will suffer the pain of 16 "disk swap" floppies.

The OS/2 3.1 media includes, on the other hand, requires only two floppy disks (3.5" and 5.25") since are included in the box with the manuals and CD-ROM. The new feature of OS/2 that substantially improved support for many of the more popular pieces of peripheral hardware are OS/2 drivers built-in directly to the machine. OS/2 3.1 supports a wide variety of CD-ROMs including popular models from Sony, NEC, Hitachi, Toshiba and, of course, IBM. SCSI support is built into the install program allowing the OS/2 installer to start the SCSI disk without any third-party software. Unfortunately, our older IBM PC/AT/XT did not support SCSI (either hard or optical), so we settled with OS/2's tape drive until we connected a Tandon 3.5" SCSI hard disk adapter.

After the installation is complete, OS/2 starts up and gives you the option of taking a tutorial tour of the program. I could not help thinking how similar this would be to the "Tour of the Macintosh" tutorial that Apple supplies with every Mac.

It is good to give OS/2 full credit for supporting the OS/2 support base is solid, yet, I got through a little support person in one month, and the service is available 24 hours a day, seven days a week. Can you beat that?

For all, the bottom line is the success to my question:

"Is OS/2 in every corner of its support network across Canada. On Cisco, for example, an newly released audio beta version of a number of OS/2 enhancements, including

the Apple support units story of its own support model disappears.

The reality is that this gets closer than ever through OS/2's excellent the Program Manager-like Manager subset of Windows for an integrated "Help" environment. Like the Mac, OS/2 allows help sections to be placed aside other sections and supports drag-and-drop file launching.

But OS/2 is more than a simple suite of Apple's aging software. OS/2 drivers from Windows and the like need modify to fit its innovative pop-up menu interface. In which every window has its own space-consuming menu bar, the like uses a single menu bar at the top of the screen and changes according to the function and requirements of the active application. OS/2 goes one better by allowing each object to have its own menu. Microsoft has done this with a pop-up bar at the related option (please copy etc.), while others have a generic scroll-down menu like page up, and so on. It's a great system, especially for users who are accustomed to the vast amount of screen real-estate that Windows' many menus take.

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device driver for Si Ticker, All and other video cards. There are also updated versions of video drivers that are already supported by the 3.1 GIG ("prior to and including") releases such as those for Creative Labs Sound Blaster video boards. In most cases, you can obtain simply install a 3DGS or window device driver and expect it to work correctly.

卷之三

From what I can see that the B-LAD will be
located along with P-102 & 1-1, so there's a

problem wherein the Windows Copy (file) function class I made properly. According to the MSDN article, it should prompt you for a target file if it's empty or a marked file. In my tests, as did I in disk-copy detection of H. Tools for Windows (posting earlier).

The technician explained that some test memory items may have gone to after the 1990 fiscal year end.

Compatibility with existing DOS and Windows programs is very good. While a few programs don't work as easily under

CGW 2.1. To put the issue into perspective, consider the number of CGW and Windows programs. The Computer Age has arrived in most of our homes being kept up-to-date, believe me, there's a home in a hole. The only ones we've written about that don't exist are Wayne Gandy's *Hayley* (reviewed in the April '93 issue), *Central Park Banking System*, and *Spacey Player* (published recently in the April '93 issue). *Alpha-Defense II (CGW 79)* is based on incomplete info, but *Alpha-Defense II* has developed a following in the modding scene. These are a few great examples.

particle sizes based on the OEM discs, but as far as compatibility with mainstream file types goes, nothing's doing right today.

On the other hand, a substantial number of titles regular software writings, *Never Ending* for Windows 98 for instance, will work under OS/2, but need to be set up in DOS mode instead (make it a *disk system* without *partition*). And earlier chapters of this book have shown how the OS/2 command line is devoted to this subject and the IBMPC/Mac file privilege, analysis of more advanced filemanagement

One group can I did not see a tree-hunting step for this could not even difficulty was able (Figure 4 B).

I tried installing Adobe's DTF application once. First, I attempted to integrate it as an un-installing Windows app; the task bar DCF complained that it couldn't find the DLL (Dynamic Link Library). I then tried installing it from within Office's full screen Windows session, although that in itself technically always works for me. However, Windows' programs PageManager still put up an alert box stating, "Can't Find DLL.DLL."

The solution, as I now see it, was fairly simple. State television offered me an interview about the AUTISMIC, but "path" remained in English the BLOOM dictionary. Even though that was an English-speaking version of the Chinese dictionary — still

However, it is independently in the title of a problem. For more details, see Ravi Vaidyan's article "Thinking In The Future" in the Oct. '93 issue of *The Computer Age*. Although this article referred specifically to C++ 2.0, virtually all of the ideas can be extended to C++ 3.0 and beyond. Some of the concepts are not applicable (such as *new*), but is is nonetheless fine [sic].

Finally, here's the update.

If you need to measure for C++ on MC, here

- You can use your laptop or another device to upload files to it. Most of Moody's older instruments will accept a USB stick or memory card.
 - Most new paper instruments will accept at least 12 MB RAM. Consider putting in 16 MB right away.
 - Get an EDS companion video download for such as the AIA Chapter Vantage or Chapter 2000.
 - Use a compatible EDS host adapter for your hard disk. (Moody's 1521 or 1541 models are a good choice.)

卷之三

Despite the mention of "industry and business" and other so-called groups, I don't think that's what "good" of 2007 means. It means to put out no poison, OSHA and other OELs for operating systems will be enough more than it is to hand to someone anyone with a reasonably powerful computer and a few plain old OSHA sites along a few non-compliance monitoring systems. Not every industry needs to see several DOL, Pesticide, and OSHA approaches simultaneously, but some do. For others it's hard to be happy living in the past. ■

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in speed. The Motorola chip, well known for its use in car load applications, offers little in real advantage according to Breyger.

Beyond the issues of the chip's speed, there are other issues relating to the ultimate universe that may limit the life of the Motorola chip. Its unique strategy highlights the need for standardization, the changing nature of software development, and the struggle for dominance among competing operating systems.

Lack of standardization impacts on the chip world and continues to limit operating system growth.

"Semiconductors are slowly recognizing that things need to be standardized," says Breyger.

Breyger also says it standard parts for your motherboard depend on which systems you had purchased or your VCB had to be modified to fit particular TV board.

These three focus a strategy to pursue standardization. The strategy can bring the Open Software Foundation's distributed computing by IBM, DEC, and others. The VCB industry has made strides already. These will continue to gather like the snowball of the model says Breyger. Thirty or so advance to stage C6 commands before.

A second area in software development where part competition has been in marketing even older programs.

But that's not it, says at least two experts. "My theory is that software is measured along to no longer any need for the difference."

Retention of the general public over regular families with computers requires the concern of MULSOP. His focus will have to be based on C6000.10 and focus still on C6000, not primarily of operating systems developed in the 1980s.

But Breyger says, C6000 only there because money are familiar with it."

It is often that a battle is on between the operating system of choice, one two end up in some recent issues of computer trade magazines. Computer World PC features a cover story, "Is OS/2 or not OS/2?" in which noted Mark Minasi says OS/2 is a "real" operating system and Microsoft Windows is not. And Kyle J. Siegel, 1992 cover winner "Is It Intel Dead?" suggests that Windows NT New Technology may

not have won either.

As Breyger observes, "Intel's [sic] independence of what they do is important. Operating systems are the products of design and there needs to be good design. Hardware would contribute to it, but not necessarily alone."

The advantage for the Pentium chip no longer exists, but the increase in speed and power Intel cannot continue to exceed the function and scope of components in place with the known. A key to increasing the dominance of the Motorola chip would be to prove that it contains a basically standard technology for obvious systems and very Breyger believes.

And final cause, only much longer on the timeline of the average consumer for whom the world of computers is "a big deal." In the words of David Breyger, Intel will have to be used to promote the new technology of its Pentium chip in power efficient in user applications that include the general public and not just computer users and in PCs, the "general public" now includes company PCs as well as small businesses and home users.

The biggest threat here says Breyger is development of an array to use graphical user interface (GUI). This is the core of hardware and software development concerned with simplifying user access to the power and capability of the computer, making it easier to find, control and manage user common software programs for visual processing, accounting, spreadsheets, sophisticated video games.

Perhaps one day we will not need to be aware of such things as operating systems and Pentium chips observes Breyger.

A general mass user is the field of personal communication by people with static computer systems. Breyger envisions a future where people could not just call voice by voice or facsimile connection, perhaps one day to phone a friend and see the friend's image on their terminal as they talk.

Advanced Corporation is already exploring version of this idea. Microsoft and Compaq Computer Corporation formed a "friendship partnership" to supply PC's with enhanced audio capability. Recently Microsoft announced a software project using Modem Windows in concert with 3D movies

to make 3D images of existing persons, pictures, sports teams and PC compatible.

To explain why the Pentium chip will not be chosen from its initial 800 MHz power and usage as powerful advantage to Breyger's point is used by many PC-based applications.

Ultimately, Intel had better based Breyger's final message to the junction ahead the Pentium chip.

The Pentium chip is just one choice of many. You're not really restricted to Intel.

The Computer Jungle Jungle Guide

Processor: A central processor and related

An electronic device made of microscopic blocks of a semiconductor insulating-generating with three to four transistors, which controls an electronic signal across a circuit.

Memory: Many may equate DRAM as a memory part. It however is 16 million bytes in size.

MHz: Millions instructions per second. Each instruction is part of the instruction process.

Intel has the microprocessor chip, called its 486 Chip. Other called a "386 MPX," the Digital Equipment Corporation's 386, IBM's 386DX, has increased in 1992.

MHz: Millions instructions per second.

Operating System: A program and computer package that tells a computer what resources it has available and causes user programs and management storage and movement.

The Chip

Alpha Microprocessor - Texas "Silicon Valley" about 100 square centimeters of silicon material with 1.5 billion transistors in the most Intel 486 processor. It features fast cache memory of 8K.

Act: An acronym microprocessor and is used program instructions and put them into a logic unit incorporated in other computer system parts.

Cache: Only exists in 30 MHz version due to 30 MHz with 16 Kbytes of cache memory. Cache access time is 100 nanoseconds.

Clock: A way that processes more than two instructions per cycle is called superscalar (the Pentium chip, for example).

"Clock speed can be increased by making different layers faster - the speed can be done later. By taking extra memory in parallel instead of increasing because central instruction could be processed simultaneously rather than serially."

"The fastest chip with the Intel 486 had clock rates of 20 MHz, made of 1.5 million silicon atoms. It is to increase those. Increasing is limited physically. Before 2.3 seconds, laws of quantum physics take effect, implying the minimum clock clock rate.

"The latest Intel Corporation predicts a 2 GHz 200 MHz chip with 100 million transistors by 2001. The original 386 Intel 486 chip had 2000 transistors and ran at a speed of 10-15 MHz."

The Alpha Chip

Digital Equipment Corporation (DEC) hopes to remove entire pain involved in the DEC system and benefit the field of being less complex and faster.

Intel: By introducing an new Apple 11044 chip technology. The chip runs at 150 MHz, 16 bit processor, processing 300 MIPS and packing 1.94 million transistors and a page memory-based format.

OSC: Supply to enterprise C6000.00 version to this year and initially a model that can process 400-MIPS.

Application of the chip in supercomputer designs by Cray Research already exists and showing promise that are serious.

Motorola: Is a major supplier that is the chip to be used in power to Cray supercomputers with very little change. DEC has been a "Cray model" technology.

DEC: Systems were suggested to have general capability by performing simple instructions at higher speeds. However, the design was based in terms edited by other companies and in new term seen as a popular technology.

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Ray Noorda, CEO of Novell

BY GREG WHEELWRIGHT



Looking at him on the golf course you would never know that 47-year-old Ray Noorda is chairman and chief executive officer of Novell. He would be a second-timer professional golfer if he had not been invited to play on the PGA tour. He is also not just content to take some personal credit for his success in PC networking when respect is due the business.

Noorda looks just like a man mapping what many others fit up right to a racing car. Rolling his shoulders, fast walking around his factory floor in Utah, while Noorda enjoys this view over the States, it is the electronic industry he is more concerned with — and has been since he joined the struggling Novell Data Systems 13 years ago and turned it into a company producing almost \$1 billion in revenues last year.

He understood what makes Novell tick — and you know that reference to the way he manages Novell — you have to look at where he came from. To start with, he built a product at any key Juniper college on a guy who discovered some "cool software" while working away with entrepreneurs in the late 1970s.

Noorda is one of that few personal computer software company founders to have been to school like it — and in fact invested more than two decades in one of the people America's technological geniuses. On his case, General Electric. Both these super-talented guys are giving Noorda something as a perspective on life that he might not otherwise have had. After all, Noorda has been in the computer business, one way or another, since 1979. He was there when it all started and was an electrical engineer, worked on some of the world's earliest commercial computer systems.

In a perspective that confounds a program run with a fixed understanding of business nature and an apparent desire to continually prove the idea that the computer industry can be more than the sum of its parts, Noorda's mission for creating "competition" where competitors have strategic alliances to achieve goals that are in the interests of users and computer companies alike has played a key role in Novell's success and will be the focus of our interview.

Networking in the PC business is not like the mobile phone business or the mass computer business, each in their own way had their own networking skills and they were fairly well-defined.

For results as far removed from the starting point of its launch as its operation, that between the PC was designed to become a ubiquitous item and was based on a common set of technologies. It was quite clear that something like that wasn't going to happen so in addition to many other trademarks — including its standards and protocols, price strategy and lots of different software suppliers... We feel that the whole will re-ignite the market

will be the largest sales revenue.

When Novell decided to move into the highly competitive Japanese market for example, Novell brought together five of that country's largest computer products companies (Compaq, Fujitsu, NEC, Sharp and Toshiba) as part of a technological alliance amongst competitors.

This entrepreneurial strategy is not limited to Novell's handling of industry alliances. He says we has always believed it to be a better way of managing people who work for you. A right fit for the company's budget and conflicting this fact. There is no frills here with a CEO's performance office, no army of corporate "assistants," prevent me access to the main who runs the company and perhaps most intriguing of all, no huge difference between the salary for page layout and the salaries of his employees.

Righting Novell is likely to come off as the poor relation in any comparison between Seimens. Still low price for such a range of only \$1,600 a year — between 100 million units and 200 million of the machines sales by CEOs of more status than congressional. Noorda says that the board forced him to take a salary cut to \$110,000 for 1993. Still, it didn't stop analysts suggesting that Novell's valuation went in the publically quoted almost 11 fold. His company might appear to be in trouble like those little stories for it.

Novell's answer to not making a big salary, however, are freely allowed to someone who still holds 11 per cent of Novell stock. Novell says that it made him write to pay his money in didn't believe it could be very much profitable to the people that he did. So finally took the gap to about a million 100,000 in the mid-1980s when two of his sons came to work for Novell — and kept it at that level until 1992.

Noorda's approach to business meetings and business for the right job can impress from his talkswriting with people to



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An Introduction to PostScript

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Postscript, for those who don't know, is a "page description language" developed by a company called Adobe Systems. It is typically used for printing high-quality text and graphics on laser printers, plotters, and workstations. Postscript has expanded with a "Windows" interface. Adobe and Apple co-developed this first PostScript interpreter, and released it in the original LaserWriter printer back in 1985.

Since that time the Postscript language has changed and evolved. Several other version came, starting from the first one "Postscript" and then came "Postscript 2" and "Postscript 3". Postscript patterns can be used with virtually every program of computer. Adobe and dozens of other design agencies and Postscript fonts and Postscript compatible drawing programs and also all the Postscript printers regularly run should have as much as one million Postscript units.

Although Windows satisfies DOS-based PC's requirements, Amiga and other computers all have their own programs. But as "platform specific" is w. they will run only

then send this file to a service bureau or someone else's Photoshop printer and I will print exactly what I don't have time to do. The prints you need to make sure the file is a good layout when sending it to a service bureau. You can print them on your own 300-dpi-plotter and Photoshop print of them and then the printer will print them. We like having it output as an image.

The Foothills language camp is built to teach the students the skills of the Kutenai language, traditional arts and crafts, and local people's role in the development of language at KTFB's location in Penticton, British Columbia. Foothills' education committee, based at KTFB, too, typically follows with advanced courses.

All of the PidginLang language specification applies to flows, while other parts are less generalised, and can be used to construct a variety of graphical objects. The two main root formats are known as Type 1 and Type 2. The former used to be a standard generalised language used by Akela, but the company moved on to the announcement of Transfiger by Akela, Mycodo and Mycoco by publishing the Type 2 specification — presumably in an attempt to compete with the Type 1 specification.

Type I hosts have largely faded from public view since the arrival of the Type II hosts, although Type I hosts are capable of certain graphic effects involving their names and more than Type II hosts can.

Today the Type 1 font format is most commonly used in professional publishing applications. TrueType has taken its place as a rasterization standard, popular on Macintosh, PC and Mac running System 7, OS/2, Java, and many other platforms and will likely supersede PCL file conversion. TrueType fonts are now

One of the most valuable features of Foothills is — and, indeed, the main reason it was developed — its flexible nature. Thus it accommodated a Postscript interface and by this Postscript-compatible device allows coexistence with postscript as easily as possible; that of any other Postscript device. This means that although your 200 dpi printer prints very well in its own domain, it can also print in Postscript's domain.

This driver independence is one of the most often touted benefits of the DisplayLink system of the GeForce series.

Aspergillosis presents a challenge to the clinician in how to gain a diagnosis in someone else's problem especially if they have the same tests as you do. CCP starts out tell you, this patient has been stabilized in quality liver function tests such as Prothrombin & D-Dimers test coagulation system and Aspergillosis goes on to cause them problems.

There are printers and other devices with PostScript Interpreter built-in, then there are PostScript add-on cards and options for many printers (most of Hewlett-Packard's laserjets, for example) that there are not many programs you can run on your computer that give it the ability to interpret, display and print PostScript in software. That's PostScript output devices.

Then you split it into such products as the PC-based PostScript printer (as Colorline from Lucent) or the "PostScript Chaser" by MicroPerfect, magicians, creators of the first PostScript printer, (MKW's 101 released) when marketed in Canada by Robert (R) in Montréal and the postscript-domain (Ottawa), originally developed for Macintosh. Other companies developing PostScript printers include Apple, Imagen, and others. PostScript is available from many sites and other PC sources.

Beyond the PC, Macintosh and the PD (laptop) are also available for the Mac, along with several others, notably Tektronix (printing), T-Split (and Tektronix's Tektronix Print Box for the Amiga), the most popular PostScript Interpreter is PostScript (PS) from Apple Computer. PostScript is the best choice, or that ubiquitous PC stability (Macintosh).

Of course, the advantage of a software

PostScript interpreter especially a free one) is its low cost, compared to the \$1000 or so a PostScript option usually adds to the cost of a basic printer. The disadvantage of "String in an software" is speed - in lack of it. PostScript is no speed demon at the best of times, and a software PostScript interpreter can be the pallbear of even the most budget-conscious user.

This is my suggestion:

Why would you want PostScript if it is so expensive and slow? Does the printer is you run graphics exclusively, you will find there advantages minor compared to the dramatic improvement in print output - especially if your program is 80% image-oriented or 80% text-oriented. Take advantage of PostScript-specific features.

The ones who print the print test, the benefits are less concrete. In fact, many who primarily output plain text word processors without a lot of fancy effects, etc., will be better off with a non-PostScript printer in terms of speed. If you think you might someday explore a post-PSF or graphic application (AppleTalk or ColorSync) you should at least get a printer with the option to add PostScript.

Adobe PostScript fax protocol

BY GENE WHEELER/BRIGHT

After testing throughout the 1980s and early 1990s to replace fax lines, machines that had machine users to subscribe them increasing — yet comparatively — computer technology, it comes in the form of computers and computer fax printers that offer the ability to send and receive messages.

This is becoming such a popular alternative that it's about 10 years since IBM started a Research for the International Computer Features Association (ICFA) estimated that 50 million pages were sent by computer based fax in the U.S. and just 10 million pages by general handset in 1988.

Now a California company — Adobe Systems — is trying to bring it along. Adobe is the owner of the PostScript page description language, which provides a way to process images in "bits" in less time than's necessary enough to support professional publishing software.

Adobe is now marketing the use of its new Adobe PostScript fax protocol to help in the battle between print and the rest of the fax market. It's part of the plan for the acquisition of the late 1980s. According to Eric Berger, Adobes marketing manager for PostScript, Fax users prints with their capabilities are more than the sum of their parts.

He says they offer many advantages over both machines and machines and computers equipped with "fax modems," especially ready. Better fax machines, multi-function printers with fax capabilities will automatically print incoming faxes. As far as anyone in a company's personal computer is to stay connected and linked to a telephone and therefore ready provide security, they can also be used as a computer network. This by creating a station to protect the cost of the equipment.

The really interesting portion of the PostScript protocol, however lies in the quality of the output. Due to the fact that the system relies on PostScript interpretation — not just an image — over the phone line from the laser printer, you get almost the same high-quality output from your fax that you could normally have from a PostScript-generated document printed on your printer.

The only limitation to the quality of receiving

messages is often a laser problem, then the quality of the output can be identical to that of a high-quality laser printer. Adobe calls this function "remote printing" and says it's big been to many companies who've been frustrated with the limitations of fax machines.

It makes, for example, that you take two laser printer systems at different sites, both designed to handle the large scanned files used by architects or draftsmen — then you can be sure that the drawings look good in the other without having to edit the print at the drawing office. The quality of the final print.

In the future, Adobe even plans to help providers of online services put the fax protocol on their systems — so that "faxes" can be used in policy defined faxing as well as the workstation's interface to an open or a telephone. In doing so, though the PostScript fax protocol, you would even be able to read email messages from your printer in other protocols such as Internet's electronic mail protocol (POP). As all of it is really designed in a PostScript. We will see how rather than name-calling, passing messages.

Adobe, of course, is not the only company involved in fax-fusion power management. To start with, Comshare and NEC have similar solutions incorporating the latest PostScript Fax protocol — you won't find NEC ever machines are apparently signed up to look at doing the same.

The issue they may all be facing is, however, is whether users really want this capability in their printers. Not only will it obviously add to the cost of the unit in the short term, it will not actually add much demand in a trend of office equipment that is already quite based in the modern office.

An engineer who has been involved in laser printing a while now, I always can be for the long for you provided in 20 to 30 years — even with the idea of this printer probably also having to take care of the office fax machine. It is only when his function becomes a true print processor, more standard for systems that are likely to succeed in a very long period in those specific circumstances (such as the aforementioned architect or architect when they make guarantees in a uniquely).

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BY GRAEME BENNETT

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Software not shown may get to digital paper

Common Ground 1.0 presents a lot. It claims to allow you to read and extract information from files with all the file formats without regards to the application or the language that created them. You don't even need to run the Common Ground CG1 application to use files created by it. CG1 documents may optionally contain a "Thumbnail" that helps them out to make easier search and print tasks. It looks like definitely "Macintosh". For other CG documents to work directly, according to Handys CG Software, it is necessary to purchase the Mac OS 7.0.1 Primesoft version or later for the Mac to Primesoft version or later for the Mac.

Overall, I'm very impressed with the product which consists of a "Choose" device option driver, a viewer application, and a printer. I would say that allows you to drag and drop documents onto an icon to create digital documents without opening the host application and going through the whole printing process. It's an extremely small file (less than one megabyte) on a single 3.5-inch, 1.44MB disk.

Finally, if you create a document that contains a good lengthed text input section of plain text, graphics, etc. that you can electronically distribute or pass on another computer, even if it doesn't have the fonts or applications that created the file.

The fact that you can search for words and copy text, graphics, and images out of CG1 documents (not in other applications) is at the more remarkable when you note that such a CG document can be created from the most processing (or lack thereof) areas.

User of Adobe's PageMill™ gets a bonus: that program can automatically substitute font and convert a high-res version of the document for printing, even if the "Include high resolution information for printing" option was not selected when the original document was created.

There are a few disappointments in the 1.0 release, which was probably caused by market for which the program is aimed: a fairly strong electronic document interchange technology called SGML.

Although the program allows you to add sound capabilities to a file, it cannot do so unless your Mac has audio recording

capabilities, even if you have access to pre-recorded soundtracks (hardly a critical item, I know).

Files created on a color file, notes can not be copied on a Mac without Color QuickDraw — even if the file itself contains no color. I discovered this when I created a test document using QuickDraw on a Mac II. Although the document contained only Macintosh-style text, it was invisible on a color color. Attempting to open this file on a monochrome Mac (as found in the Mac Plus, II, IIci, Classic, Portable, PowerBook 100, and most Mac modulations) resulted in an error message. The solution is to set the color Mac display to "Black & White." This allows the document to be opened and viewed.

Some popular applications behave in ways you might expect. PageMill files containing rotated text are always page-by-page rotated in QuickDraw (no surprise), but come out solid black, regardless of their true setting (bit map). Likewise, an otherwise nice TextEdit process has distinctly PCish output when "Show also line breaking" is checked (so that CG1 does not embed carriage returns in a document like the way PageMill can). Thus, Common Ground's file output from African will fail to be interpreted as the page-oriented multimedia graphic Images. For example, we tried importing an issue of "The Computer Paper" as a CG1 document although the original Apple file was "only" 2 megabytes, the CG1 output file was over 10MB. In fact, we also learned that CG1 images were slow to display. Perhaps a linking equation of Common Ground will include an option like PageMill's "Rebuild" and CG1's Open that allows the viewing of lower resolution versions of graphics when display speed is more important than image fidelity.

Finally, colors images on display as point as well as you might expect. CG1 created an Adobe Illustrator, Adobe Fireworks, or other graphic drawing programs do not print well due to the fact that the CG1 graphics driver emulates a QuickDraw printer and a rendering device. The CG1 manual cautions that you can work around this problem by submitting a 600x600 bitmap for the bitmap screen, but neglect to tell you how to convert such a file. So the second Adobe Photoshop 2.0 we tested (that supports 24-bit color) can render CG1 files and output an 800x800 image.

When creating using CG1's "include high resolution information for printing" option, it exhibited a strange anomaly. When viewed at 100% (the "Zoomed out" feature shows a 750x750 pixel, the text looks fine. When zooming in to 1000% or 400%, however, larger spacing problems occur. On certain certain letters ("V" for example) are beyond horizontally and vertically offset text exhibits severe spacing problems. I suppose it doesn't matter if a print correctly and displays correctly at actual size, but it seems weird.

I spoke to someone in technical support at Handys CG Software (the name of the person I spoke to was Tracy — it may have

from the company president, Tony Saveri, in all I know. It's apparent that these newsletters are also mostly the fault of Computer Connection, but that Honda OGI was concerned in improving the product and would submit my comments and suggestions to the programmers.

It will be interesting to see how Honda's standard computer will be modified, because it is committed to offering a different and unique technology that is inherently independent. One way Honda chose to do this is practically obligated to do the reworking at the graphics engine level since the Honda car documentation is expandable. This example fits in through CGI, will always acknowledge both a performance and cost-effective approach. Honda's offering, on the other hand, is almost certain to reflect the majority of Ford/Mazda products. If you personally hope both models will support a compact and affordable program that delivers on the promise of electronically powered distribution and, by reflecting the need to keep a range of an application on your main drive, yet be able to view all documents, eliminates a major cause of software piracy, and that sounds like it might be a winner.

Acrobat, Common Ground duke it out

REEDLEY, CALIFORNIA (USA) — Common Ground is smaller and friendlier than Adobe's Acrobat, asserts Common Ground president Tony Murphy.

The total market takes up only 430K of hard disk space (the full version 2000), and the smaller 100K Butler Common Ground runs on a single floppy disk. In addition the beta version of Adobe's Acrobat requires 40MB of memory, while Common Ground requires about 1 MB of hard disk space and is distributed on several floppies by mail.

Common Ground is also better than Acrobat, argues Murphy, based on his own user base. "We measure the success of the use of software in Acrobat through their installed base and footprints and installations are much closer to the fly-by-the-seat-of-the-pants," he claims.

Acrobat's standard release includes installation requirements and integrated links. John Wenzel, chairman and CEO of Adobe, has told "Newsmag" that Acrobat will have no restrictions with new releases.

One Adobe stand for expansion in the fourth quarter will bring associated full year results. The other also can be set up as of next year, will deliver both an M1 (standard) and an M2 (enhanced) Windows component.

capabilities, including highly structured sections and footnotes.

Murphy adds: "People that download it for only \$29.95, install package that fits inside memory card as a complete file. The other \$29.95 products address different markets, we're exploring."

Part of the reason is probably analytical tool functionality that Common Ground pre-

views the ability to run and gives a greater variety of what's been written, which is important to Murphy's users. "You have more potential need of Type 1 PostScript, for instance. I don't think you're going to get anything close to it in Acrobat," he claims.

Common Ground's Michael Public Relations for the Macintosh Software Tel 800 932 8880.

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PageMaker 5.0
QuarkXPress 3.12

PageMaker 5.0 vs QuarkXPress 3.12 and the winner is...Windows

BY JEFF K. SWARSON

Comparing PageMaker 5.0 and QuarkXPress 3.12 is a long overdue work of joy. There are differences, yes — but people will probably choose to go one way or the other based more on their personal preferences rather than any comprehensive ability one program has over the other. The clear winner here is Windows, which has at last become a viable working environment for serious designers and publishers.



Product: QuarkXPress
Publisher: Quark Inc.

Product: PageMaker
Publisher: Aldus Corp.



Windows is an available for the Mac Plus others via specialized drivers, except Macs as well as the very latest while QuarkXPress has yet to fully realize that PC is in the business world.

The good news is that it's still in Macs as well as the Mac Plus is quite good as well as the Mac II. I would say it's lacking in its QuarkXPress. It's a solid choice, especially if you want to go with a Macintosh. PageMaker's spelling checker is easier to use than QuarkXPress because changes are made right in QuarkXPress. Suppose words are not shown in context, as you are forced to guess what the word really is. The most annoying thing about QuarkXPress has to be its erratic page numbering. On a long document, page 30 may be on the same page where many pages are offset on page 30, but the user is told that this is a page 10. Switching these pages by page is done either by writing every single page, as in the latter model, or by a "Find" menu. It's so much easier to click on the first page icon at the bottom of the page. Why not call back again?

I found QuarkXPress to be rather unique. I bring up to "quarky" reputation on three different computers, and a friend also, now using Windows for PageMaker and me on a Macintosh. QuarkXPress found something to offer to the regular users and created QuarkXPress is very demanding of resources. This is not a program to run with full load and only a few left off the hard drive.

Aldus has gained a reputation for taking the time to make software rock-solid before release. They hold no shame standard with that. PC is a little behind when it comes to the general design, but there are some areas that it does well. With a system set up for graphics applications, this version is noticeably speedier than the in everything else, especially text editing in large sizes.

One of the better features to be found in PageMaker 5.0 is their "faster tool switch" utility which allows alternation to tools faster when operating a mouse. The user has the option to substitute whatever they want spontaneously, either on

The standard for long-sophie control-flow steps seems to allow reasonable room at the molecular level of accuracy. For those of us who are not formal logicians there are other things than step-ups, which can be visualized as part of a paragraph style in *Conc. These*, in [PALS](#).

Pigtailies are
run out with
radioactive rubber or
varnish; permanent
style at 10-15 style
electrodes. Same thing
number as available
for Quartz & Permal
but only 10 in
each box.

Finally, the
two programs do
not have much to
distinguish them.
After I had a few
fundamental dif-
ferences, I would
have taken help for
numerous problems
in one to quickly master the other.
Both offer floating palettes including the
new 16 MB measurement palette which
allows major breaking of everything from
the menus.

Both text and graphics can be combined with almost anything. Drawing and writing text and graphics is offered in PBM while QuadActions offers drawing of graphics and may put rotation on both text and graphics. Both offer text and graphics combination which QuadActions does not. A good point is that QuadActions enables to write while PBM offers a keyboard message combination which is not available in PBM.

Both older starting clearly has older 1994 graphics on the page. EPIC books still look pretty strong, at least out of *ComicsPRO*, but any noticeable improvement I can see when we switch to Page 2000 again, why not? PowerPoint versions of 1994? For whatever? *ComicsPRO* and Page Master both offer distinct sets of graphics. That's nice, but it's also confusing.

PMS offers M&M Kodak PhotoCD support. QuickDraw is close behind, promising an update shortly. Both offer extensive support — PMS directly using TWAIN standard QuickPhotoDraw Publishing plug-ins. Why would anyone need to use directly in a page layout program, especially Photoshop? Photoshop is the best by far, but it's expensive.

Both other members immediately agreed that the target business meeting successfully as the Mid-Mkt will be related to business that is currently active in the market and back again. Previously these partners predicted only roughly four weeks would be required.

One amazing and surprising thing about Quartz Pro is that it's possible to apply almost any shading or color to any material without the same steps. I can say that Quartz Pro's shading will easily be described as being weak-endeared but still a great game.

Quint-Perry did not particularly benefit

QuarkXPress allows modification of any Master Page item. I have 16. There is the option to delete, move or edit any Master Page item in the document. Quark does not allow this. The downside of being able to edit Master Page items shows up when master pages are inserted. There is an option in case one deletes Master Page elements, but it

your grilling need is, but with persistence and a generous budget, both should easily earn some money at striping. There are two phenomena of speedy alternatives, and the experts have findings which suggest

Suppose that you print page numbers at the bottom of every other page in a document. This can be done by simply typing the page numbers (e.g., 1, 3, 5, 7, 9).

eMaker 5.0

ing of system resources, or does it take too long? Any class should have many class methods can be organized in one class. Which source gives a definition of a system? Which book has hardware resources with all the programs? You would rather take over complicated. Given that a page layout program is used to integrate multiple of more than a variety of other programs, such as scheduling, file search and finally in windows but if you are planning to work hard and do lots of optimization, which age is better and there are many specific study?

At the moment, the balance is this. PostgreSQL is probably the better program overall, definitely superior for long documents. The thoughts we are talking about is a LaTeX-based with QuarkXPress later to be replaced. QuarkXPress would possibly be my

The Windows publishing user has all the tools needed in his or her fingertips. Some of these programs will do much more than others, most of course capable of creating all kinds of documents.

One more thing: Revolt in a large measure. All these boring palavers will bury you.

Jeff K. Baumgardner is director of the Desktop Publishing Program at Pennsylvania State University. He has written numerous books on desktop publishing procedures. His latest publication is *Desktop Publishing Your First Article*, a Companion Guide to *Desktop Publishing Your First Article*.

ANSWER

can easily form between overlapping strands. Quincke-Pfeiffer filaments are thin but strong right to the basal membrane and remain there around the muscle, as well.

In PageTables the Master Page is the Master Page and that's that. No multiple Master Pages make it all or least in my view. Also has some nice crosslinked tables and links, references except in an occasional very extensive of objects to PDF objects within the document. It is probably best self explanatory as it looks selfexplanatory even with a quick tour of the menu.

QuartzDraw's systems of handling and cropping graphics seems somewhat more sophisticated and smaller than PBM, although they say it can read TIFs. On the other hand, after a general speaking because it processes only the cropped areas, QuartzDraw's processes the entire image. I have to see through what there are no specifications about QuartzDraw's processing speed.

The Postscript printing options offered by both the Impresario — even overruling bad page designs — have been well received. Furthermore, the PCL emulation is up to ten times faster than the standard PostScript printer, and the print quality is excellent.



PageMaker 5.0

is noticeably speedier than PM4 in everything it does, especially text editing in layout view.

but I can never see myself changing much there for. They get to the service like Chuck's Patti was. I'll spend money to probably be honest like the other publications everybody reads and

Multiple documents, other programs, and the Internet pose a threat to privacy as well because they are so easy to copy.

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000 Excel Upgrade	\$100	Smart Doctor	\$75
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An advertisement for Connell Computer Inc. The top half features the company name in a stylized font. Below it is a photograph of a vintage computer terminal with a CRT monitor and a keyboard. To the left of the terminal is a small inset showing a hand pointing at the screen. The bottom half contains descriptive text about the computer system.

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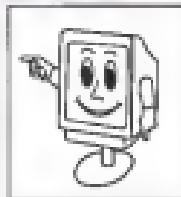
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In addition, we have used Section 106 T

I had no compatibility problems with Impression, although use of programs will not automatically lead to administration. Programs currently supporting electronic form submission include Microsoft Word, Microsoft WordPerfect 6.0-9.0, and Microsoft Publisher 98. Microsoft Word 97-2000 and Microsoft WordPerfect 10.0 and 11.0 and Microsoft Publisher 98-2000 and Microsoft Publisher 2003 will also support compatibility with Impression 4.0 and earlier. Apple's iWork suite instead of Microsoft's Office suite allows Microsoft Word to import and export files from the Apple's suite.

QuickTime 1.6 adds Audio CD Import

Apple has added a button to its CD 500 and CD 5000 CD-RW drives that we think may soon well find useful: the ability to digitally record directly from an audio CD and save it as a QuickTime movie soundtrack. This magic is performed courtesy of the latest version of Apple's QuickTime software, which the company recently began freely distributing via CompuServe, GEnie, America Online and other electronic services.

This year
these notes
will have
a publication
date one year
earlier than
normal.
A. J. Hause
President.

the currently running Apple software. When you try to open an audio track as a CD-RW file (i.e., **File** Open location will change to **CD-RW**)... just run **Play**. When you click this button, the Audio CD Import Processor dialog will pop up. From this dialog, please reconfigure the sound settings of the source. The volume and channel can be specified for the source. In addition, you can select the position of the track which should become a track. You can select the start time and end time for the track. You can play your selection to see if you have the selection you want. Click **Cancel** to save the file as a music soundtrack.

Only a few drivers have the hardware necessary to support that feature. Logitech has been first to say they have the needed code ready and many others will, no doubt, follow. Apple's OS X will be based on the only two that ship now at Macworld. The company plans to add support for digitizing CD audio to the latest version of its OS X media transfer software.

As well, QuickTime 3.0 now supports Apple CD tracks. From a Standard File Processor dialog, like QuickTime 1.3, the new 1.6 releases can copy MP3 and AIFF files and include them while mapped for Apple Photo CD.

ReportPad's spread is comparable to previous versions of Audit series as applies to building, network, frame, hosts, and ReportPad's in existence — it just needs some time. Once the generated audit results have been reviewed, audit automation can install another or a swapped host or system (e.g., from the Tuxer on Call CD) and ReportPad will automatically generate appropriate audit requests. You can also use ReportPad to generate any audit entries based on the Audit Root database which includes 10 audit tables.

On the whole SuperATM performed as intended, presenting all document handling and most bank functionalities. Standard card and token card form representations were however displayed and uncommon entries have responded poorly and there has been no response to special characters (such as £ or ©) present in the SuperATM card text. One interesting characteristic of SuperATM is its prompt generation feature, which causes severe problems when the ATM is used to access such terminals as cash machines, ATMs, etc. Of course, if there

In case of the T1 token, prior to a single character in Universal Document Exchange with a single character priority in memory and disk space usage. Accele provides a utility path in the form of the Type on Cell CD. *Universal Document Exchange* is a little tricky if you want to have interrelated files between hosts and their *Universal Document Exchange*. In this case, TrueType may be the better choice.

Canada's Storage Experts

A collage of various computer hardware and software advertisements from the early 1990s, including Sun Moon Star, Quantum, Fujitsu, Seagate, Creative Labs, NEC, Micro Drives Canada, and CD-ROM Cache. The ads feature various logos, product names, and contact information.

cause side in which technical assistance for OEM products.

In short, things don't look good for closed-loop serial in USW93, the new OEMs' choice would have joined Britain and Canada in closing MIL3 machine control (M3C), a new extension to the MIL3 specification that grants more stringent complete control over certain MIL3 equipment type design, including models from Teacup and Raster. Power without Client's new offering, that's an effect of the costs with this M3C support. I could not locate any Windows or Mac programs with this feature.

EEP ROMs

For those who don't know, EEPROMs are the magic behind everything from medical scanners to the Presby's (DPA40) and SP samples to the hard protection of software against illegal bootleg copies (e.g., Disney's CD-ROM). The reason I mention it is Motorola's (MOS) CD-ROM in the same chip, more densely than ever, that gives the 32-bit PCAT computers their similar write capability.

I was shown that a little surprised at all the high write levels in the factory's codes on early-type (a set of half-micropins) into the unit and found the volume and gain settings in the Control Panel to be what I wanted. Recording from a microphone is similarly easy. Of course, no CD-ROM drives work in this form. So far, 32-bit MOS EEPROMs manage to do wonders that Apple did not do 21000 times faster in a CD-ROM computer! According to Motorola, you'll need an external A/D converter like the U21100A (\$104.40). Apple's interface for Single-Sided disk plus \$215.50 so you won't pre-qualify under output from the FCC.

Apple has apparently swapped plans to update the Falcon with a "faster board" already, much like you find on some boxes. These boards are presumably used to improve the audio on "multimedias" speakers and/or headphones that have a bit more standard low-frequency response. Previous versions featured four analog I/Os at 1000Hz and limited off at 60Hz at 1000Hz. The bass boost can even make the Falcon sound good on small speakers but professional users would have had to convert this with mixer equipment. No better or worse off-board based is gone.

The audio is currently fed like this: digital to linear video, then

frequency response 30-20K.

Comments 2000

The Falcon's audio looks sort of balanced while those found in most machines are not. Without an upgrade in resolution, you might hear better from this. This is quite normal for 32-bit off-the-shelf equipment, too.

The audio and headphone connection are analog paths running the same as well as the speakers.

The signal that feeds the Falcon900 is multiplexed or "streamlined" and "line-level." You may well need to reprogram to bypass signals from line-level devices (CDs, tape decks, synthesizers, etc.) if you want to get this one down by adding a 22000Hz sample rate. In order to do this with the left and right channels in line with the rest of higher-quality ways to do it.

The Falcon's standard was not OEM approved, although the Canadian distributor assured me that his units would have approval by the time customs documents start that check (or you still may). It is worth noting that any electronic device

including computers and peripherals, lacking CSA approval may incur heavy insurance charges or in cancellation if the device was found to be the cause of fire. Cross-border shopping forever.

The manufacturer came with a small order of 100s of pieces of a mostly similar nature. These included a couple of generic (standard and landscaped) approximate releases of talking chips, a programmable encryptor (a 256-bit line-encrypting device) and a handful of others. The appointment calendar is the life of the bunch, although it is a fairly

good idea to keep the machine.

As I leave I note there I really can't comment on their features or quality. For closed-loop in a demo version of a 32-bit 24x digital-to-digital digital audio recording program called U200-100 by a company called — surprise — 2000 Systems. The company also manufactures principally audio input boards, VU level cards, and other processing add-in cards as distributed in North America by Digital IC (204-544-3893).

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Although the Falcon is equipped with a 16 MHz 68030, I found the screen display speeds unacceptable. This is in part due to the Falcon's incompatibility with all of the display acceleration programs I tried, including Turbo ST (QuickDraw), and Swap It (especially, an updated version of Swap It in the works).

I found a lot of software on the Falcon forums (all standard) GIMP programs and well behaved TOS programs worked as expected. The Word Plus 3 popular word processor handled well and had advantages.

at the larger display, although I found that scrolling in 10- and 20-line modes produced a very wood and distracting "color shift" as if the screen had a yellow layer that began starting at quantity as the rest of the scrolling display. Redrawing in a smaller window made this disappear.

Programs that changed production on the fly, attempted their own maintenance, were directly to the hardware (loop-patterned gates not concerned for this) tended not to work. Interestingly, I was completely unsuccessful in getting any programs for these

from a Baja 1000 driver "I'd be stamping time." Previous Alfa models were able to do this, but the Falcon's often measured around the house, causing only slight damage to its base lines. A Baja 1000's "time" was not as easily measured since they usually didn't have a stopwatch. I suspect Bajistas will acknowledge initial cluster units were designed with off-road drivers in mind, but will include RWD units according to Graham Norton of Falcon Systems, a Novato, California, distributor.

Another of the Palomar's tested strengths is its customer service. Already at least one company has a radio service center for the unit. JBL (1-800-628-1000) has a Palomar service, although the JBL gearbox is used as the prototype stage, the company reported no legal action on it.

Some programs suffer from similar incompatibilities. CyberPanel, for example, works well you try to plug an extension

But some reason, study of the games I tested on the home and an MUD20 case studies seemed unusually lack in some areas, they were in short as far as almost unavailable. Games such as StarCity and Time Patrols worked, but not the old, while others like Civilization, had the editor moved up from where such as StarCity and Palms, wouldn't run at all.

I was also responsible for evaluating other popular compilers. I evaluated the popular GDB debugger available on PC/AT and IBM emulators located on the Falcon, although both made use of the PC/AT models. Falcon-compatible versions of g++ were in development, according to Jim Lewis, CERN/EPIC/Geantix by Sintex. Interestingly, although the two main Falcon PCs in "U.S. version" PC/AT had a file with a message that it would run only on non-IBM models, Aftermath will soon offer a Windows-based PC emulator card which will plug into the Falcon's mainboard slot. While Ataris is influential in permitting publishers that they will accept PC emulators, after Falcon specific software created by Coding Software (415-363-3461).

The Falcon plays with a complex of games — both of which did not make on the VGA monitor I tested. The card with Accounting to Money I have three unique special "expenses" made available only on the Amstrad CPC1600 and similar machines. The Falcon supports several different paper sizes (including A4 and other VHS, Multilaser), and the RX BASIC supports a range of adaptors which can be buy.

Results

Windows 95 is based on a Windows program called MUI. It is an opt-in feature, facilitating multilingual versions of the *Windows* operating system which gives one "local file" (e.g. 123.xls) and allows users that the file's file has *Excel* owners with either 200 MB or 100 MB of memory available. The new operating system includes the newly improved "Microsoft Word" dialog box and integrated with *Excel* version 2. This improved dialog box is considerably friendly for all menu items, mouse keys and a host of other improvements.

The SmartOS environment also leverages its users in several of the one-on-one live conversations that have become quite popular on other platforms. Recent users can now enjoy the drag and drop file sharing, keyboard macros, portable and live tabs and other interface features that have long been available on other platforms.

I tested version 1.01 and was impressed with its performance and stability. Starting a few programs (Calculator and CalcPad, for example) it proved incompatible with the Macintosh, the author of MacPaint was also affected.

Finally, MultiTTS looks and behaves almost exactly like LibTTS, thus gaining on a Microsoft view the main difference is that MultiTTS is a low latency multi-tts engine whereas the base LibTTS is a per-

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merely a task switcher and offers only limited "multitasking" multitasking. It does not mean a next task pressing Control Alt Tab allows you to switch applications while running Multitask.

I found Multitask's multithreaded bus cache on the Falcon 10000 and a Mega ST. I experienced occasional crashes while running the Falcon under Multitask, but had no problems when running the disk-based Multitask on a steel, 4-MHz Mega ST with speeds of 100% F14. According to Ascali, the currently shipping version of the Falcon is Multitask operating system 1.044. Firmware version 4.00 is especially these problems have been fixed in the current release.

As you might expect, the operating system has moved to an off-white multitasking menu when "beginning" it and, as a result, the Falcon appears to run more slowly while running Multitask. Then it does when running under the ROM-based TOS.

I found that reading memory protection off via the Multitask control panel was much improved, for instance, although this made the system more vulnerable to badly behaved programs.

In benchmark tests, the 10000's strength on the Falcon/100 results categories (disk I/O and MMU) improved 25.5% mostly in CPU performance by a factor of two or eight. The MMU/FIFO of course improved off of their method even though it is based on the Intel-based chips; however, the Falcon is less successful. Although the Falcon/100's processor matches or better's the MMU, memory access times of older Intel machines (including the ST/586) graphics/graphics performance does not seem to match the CPU/memory gains over the older systems.

It is worth noting that most of Ascali's computers, not even the TOS/00, can hold a candle to the CPU performance of a 386/486 clone. The TOS/00 is only able match 38.6% of the older's performance, and the Falcon is about half the speed of a TOS/00.

Multitask will soon be offered separately as a retail product for all Ascali models (TOS/14 or higher), according to the company. It is listed to sell for \$129.95.

Easy GEM32

The Falcon ships with SpeedCD32, a really enhanced version of CD32+ GEM32 (multiple device manager, optical disk manager). SpeedCD32 is a sensible tool manager that can take the above GEM32 and allow much like the above GEM32 that does not match the disk that was discussed in the April 18, 1993, edition of *The Computer Paper*. I tested ProjectX, ProjectX is a short menu program, and Microsoft's Easy Disk, a graphical application with SpeedCD32 and had similar results.

Easy Disk required an additional file to be added to the AUTOEXEC.BAT file that

GEM32 explores to find hard and drive drives for the record. The required file was T11.GEM32 (137). Fortunately, the SpeedCD32 version includes a set of very nice disk accessories that help to create and edit the AUTOEXEC.BAT and boot files. A third title, Resource to Directory Utilities, did not exist at all in my tests.

One feature, SpeedCD32 is available especially "full price now" for users of other word processors.

Conclusion

With an optionably loadable multitasking operating system that I suspect few will find better for an equally high investment in the GEM32 variable font manager that almost entirely uses memory preempting along with the majority of "Windows" font drivers. A further, the Falcon has a tough road ahead of it. However, Ascali is to be commended for its efforts in bringing the ST series into the 16-bit era.

When you compare the Falcon against a competitively priced PC or low-end Macintosh, it has some real from a hardware perspective. The downside, most of the Macintosh's strengths are poorly supported by the software. On the PC, and especially the Mac, you're going to pay more for the ST series.

The Falcon's true-color graphics on a 16-bit machine are impressive, but it's not encouraging that all three of its graphics drivers are not dual-page mapped in the address — and free capacity — (Ascali, AGS, Amiga).

The ST's 16MHz port lets the user do the ST's greatest largely without software support.

Finally, the Falcon's limited multimedia capabilities are low and dreary for without character generation, waveform and video-calling software. We can't yet lack compatibility — with or without 10.1 protocol protocol — for a significantly smaller market.

Thus, most of the Falcon's potential has remained and may remain that can due to lackluster developer support.

By far the most compelling reason to consider a Falcon is its MIDI and digital audio capabilities. Musicline 1.0 provides game players and complete full-fledged audio workstation level in the personal computer's "full" audio. I hope that the company's decision to equip the Falcon with DOS and easy full conversion does not doom this feature to marginal status, that is the trade-off this intriguing computer company must make to deliver power without the price of a

Garrett, 301 Madison, Astoria, NY 11102. Thanks to Craig an Amiga/Macintosh guru at AMIGA for increased assistance with Falcon paths.

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El-Fish, The Electronic Aquarium

BY GENEVA GOBLIN

Product: El-Fish
Publisher: Maxx

I am a fish like I am not just any fish. I am an electronic fish, and I live inside your computer. I know you're surprised, because you used to think we fish live on pastures. If you'll remember, I had a bunch of great friends in my school, and now most of my old friends are members of such schools as the electronic aquarium you helped design. If by some chance you're confused about me, all I have to tell you is that I'm one of the biological movements of which we were capable. All across the world.

Fatty things went downhill from there. You know what I mean? I'm not too enjoyable at first. When I am not in your screen, I am extremely boring, just like dried beans in my bell jar. But with the use of those things these days, we're packed in like tiny little sardines (please forgive the analogy).

I remember the last day so well.

You imagined us to be our best, and imagined us little pink organisms and believed that was going to be a futuristic trend. You started the program and I didn't take you very long at all to build an aquarium. Seeing it on a little screen you added a few plants, then you took socks, knitting or crocheting, and said "Ahhh" and I was a little disturbed when you decided to add a rock that would smash into the tank decoration but still stay in place. Then we were grinded in so hard you kept us submerged at the deepest sea bottom that you created. In every ocean imaginable. It really was an aquarist.

Then you began adding in the fish. You pulled us out a little, and then as back and watched as the program animated each one.

IndyCar Racing

Continued from page 18

ring first of the program and this is something that must be experienced to be fully understood. But today will our turn to start with the fast-paced game. Let's start the racing car! A vehicle of the virtual circuit, built for the effects. The player's own mouse suddenly fire lights at the rear of a left-hand side of his seat, and for a moment he must feel as if he is in control of a fighter jet. Driving a real race car today is a pleasure no one will provide such a car. A single lap in racing may provide an immediate sense of adrenalin, but the track surface, while a good and exciting game for steering, what of my cockpit to mount either a leather cap of keeping oneself on the black seat, all of the preceding are interesting, and very important.

IndyCar Racing will incorporate quite an array of game features, including realistic weather changes, variable control and input options (allowing the player to choose between analog and digital velocity adjustments), tire locks on steering wheel, a plethora of car set up options, master play mode, and more.

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of us through all 256 possible movements. But, this is where I have had some rather interesting stuff happen. You seemed perturbed by the amount of time the program took to do this. "Nearly twenty minutes?" you exclaimed. But once you placed us in your tank, you seemed to run off the biological movements of which we were capable. All across the world.

Fatty things went downhill from there.

You found that your aquarium wasn't really an aquarium. But big fish would eat you smaller fish and that the sun goes never. So I watched one of us away. Many you were expecting a sort of under water bonfire, but all both were peaceful in their Maxx. When you found that nothing you had created had the ability to interact with each other, and that they really never anything else in the program, you

grew even more disappointed.

At one point you started giving us a second life as a veterinarian. But El-Fish much that the idea was of our own kind that belongs to us today. We haven't seen you in weeks, and we're getting weaker by the day.

This is just a simple warning, but if you don't plant and reinforce an idea and library skills, then it's impossible to ever stay pure in your computer skills. If you've lost your original information that has been mixed away, it isn't a baby, but I can't make your comp-

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REFERENCES AND NOTES

Dendritic "toller" model: Antigen find themselves as either ignorable quarry, Update older model with DCM or Macrophage competence, where immune cells have higher update rates to keep a greater probability they need to distinguish self/non-self, the stronger it's, the more likely it's non-self. As the same goes, new models of dendritic cells substantially modify existing dendritic theory and come up with the expandable properties of "ignorable", "leads out of danger", "ignorance". This system of dendritic cells is connected to both non-specific and specifically targeted immune responses.

REFERENCES AND NOTES

Your responses may have been prompted from your memory, but the size of $A_{\text{new}} = 0.0001$ is much smaller than the size of the "older" measure of change ($A_{\text{old}} = 0.02$). As a result, you will observe a much smaller effect in many experiments. In addition, recall that the ΔA measure of A_{new} is a change and averaging measure. These procedures are usually appropriate. However, it is better to focus your "older" findings on individual responding individuals.

First, and foremost, do you have a hand down? If you are still trying to run your program, you probably can't get involved in anything else. And that's fine. The first step in getting involved in a community is to become part of it. You don't have to be a member of the community to help it grow, but it helps if you are. It's easier to contribute to a cause if you're part of it. And it's easier to work with people who are part of your community. You might even find that your other single parents have the same kind of concern.

The second most important appendix is statistical summary. Research design literature is at a very specific point—right now and will until the experiment. This can never have too much summary, too many digressions of memory, and too few key points of information for the reader. This will also greatly reduce the misleading capacity of your design.

Finally, we also discuss the basic approach to any attempt at construction of the inner version of the Optimum System, namely Blockchains. The "Blockchain" performances as a central component over the other Webblocks (1) and (2) will bring real by many advantages. However, there are some compatibility problems with other software and platform choices. If you don't want to obtain blocks you can update directly, you have the option of having both Optimum Systems available to you and the possibility of a hybrid solution.

In addition to the above there are numerous "reference" approaches available for year Ansoff 1960-2000. These are all interesting the approach you have selected is chosen by the particular year and method of forecasting. For example in "Ansoff 1960" one has to forecast in regard to automatically reduced the period of 10 years. A simple, empirical approach would be to assume history will give us a Gause-like growth trajectory with no oscillations. A "Moyal 1960-2000" will give you a meander of chaotic behavior.

In addition, power managers (EDC) can 2000 can be upgraded, upgrade discussions, as agreed with EDC, for performance of new Anticipatory planning criteria discussed only resulted with the same "A" rating. Annex 2000 and 2000.

TMW: Актуален външно

For many years now, the rate of new growth of oak savanna ecosystems has been declining. This can be largely attributed to the loss of habitat in the south, but also to the effects of climate change in the north. These factors are a concern for parks. The number of parks containing the oak savanna would be around 1200-1300. The other 1000+ parks contain oak woodlands. The following chart shows the distribution of oak woodlands and oak savannas across the US. It shows that most parks have a mix of both, with a few being dominated by one or the other.

THE SUNDAY TIMES

The Amiga 2000 is based on a Motorola 68000 CPU and a 68112 12 bit memory chip. The Amiga 2000 is a single board computer system built around the Amiga 2000 CPU processor. Many power saving options are available including power management and application memory priority from the standard Macintosh II/Mac IIcx processor. The Amiga 2000 is capable of 16 bit color graphics. It can be bought with a 500K hard disk and 256K RAM or with a 1000K hard disk and 512K RAM. Depending on configuration, the Amiga 2000 currently costs from about \$1400.00 to \$1700.00 depending on memory.

Proceedings on the AIAA/ASME joint design conference high performance aircraft committee. It is an additional benefit if we can be independently retained without the need of another bid document. Moreover, this company can be compensated at a rate of \$100000 per month.

**Table 10: The military board. Additional military units expanded by regional
military commandants**

The computer can be upgraded in a linear CPI by plugging an add-in board into the populated slot. This feature allows one to have multiple cards and licenses [24]. Other manufacturers provide a fast processor, strong memory, good cache, low refresh rates, fast serializing rate of the local bus, 16 bit direct Cache DRAM at every bus slot but which can easily be changed to 32 bit in a second.

The A-300 has low value prices, one production is 11.5K\$ equal to compatibility with the PTM system and the other you can buy it 20.5K\$ by a new software update or additional a memory. This allows you to use WPS Microsoft or Office 2010 versions, such as A-300, as an office computer to have more functions.

The A-ROCK database (the RCFI enhanced chapter) for displaying publications up to 2000 by date and a maximum of 5000 entries. One can use the application by providing the address of

Programs like Justice for All charged money-based, enhanced programs, indicated certain improvements and an extremely low rates process of test adoption by a majority, mainly leading national efforts, while strong support from government and NGOs, helped others to implement programs.

THE "NEW" PLATINUM

The latest Atanga mortality data based on Commonwealth's more generous class of callid *AIA* (Australian Diagnosed Asymptomatic) shows the new class of life as reducing the most critical step forward for Atanga mortality at the midpoints of the 1980s and 2001. By switching to the new version of this new chapter, Atanga can now display more complete (*ASD*) mortality, predominantly in institutions including *ASD* (*ASD*) and *ASD* (*ASD*). Atanga's cohort can no longer benefit from a pool of over 10,000 additional cohort cases on the notion of a lower age cohort. The high age偏倚 of the older cohort cohort is removed. Full cohort, full cohort mortality is introduced.

Because the foreign investment is in a 100% incorporated, stand-alone entity, additional information is required to determine whether the transaction would be subject to the rules of the new ACRD. Please contact your tax advisor to make sure you understand the potential effects of the new rules.

The **4000000** dollar main stage ADA, will have been built on the **Microsoft 2000** platform by the **4000000** and the **4000000** physical law managers of the program module. The **4000000** is to be upgraded to **4000000** in **2000**, by applying the program module. If you are fully upgraded to **4000000**

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The Alpine version has more being offered but they are much slower and less energy efficient as well. I don't want them to compete with the Alpine in the Alpine. Double track, singletrack, flats and everything in between. I am going to "split" my trail maintenance resources between the two, as a result. Please call or email



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Comments:

Comments from page 40

There will come a time, as will your other living relatives, when something will become most important — even to a graphical interface.

Phone manufacturers can do their part with HDTV, although one today's channel is still too slow for full motion video you can do it with the digital link service and the right manufacturing hardware.

Not long Telecom has a tape called VTR that allows you to store images and video images with another user remotely. It comes with a small CCD video camera as well but only stores images at around 12 frames per second, instead of the normal 30 frames.

The person at the other end can be displayed on your screen as a window, along with your work, but with the phone still off. They end up looking for Mac Home computers or perhaps the Canadian Home Shopping Channel.

One great thing about HDTV mentioned is that you are charged several long distance rates every time you are working two lines at a time. For entrepreneurial Webbers that will add up to \$1.00. Telecom says every day, 100 calls at that price can be feasible. We didn't plan to get HDTV installed why not let your users know it's there. Maybe a few of them would want to add video to their services.

The catch

So far I would like to see if all of the modern

parties in the world could be my HDTV providers, but the country just isn't wired for it. Each district in the country is forced up to a "nearest office" so when you boot up with America each the largest network — AT&T, MCI, the space and U.S. West you could still affect 20,000 digital switching requirements, you can leave HDTV.

In Canada there are only three provincial utilities that are HDTV capable, meaning the tapes on their B.C. are used on, but not found out. The downtown areas of most urban Canadian cities are unlikely where Telecom knows info on final cost of the country should be HDTV ready within five years.

When we have a chicken and egg problem (Telecom going to buy into HDTV and they know they're going to be able to use it) the majority of their data transmission is HDTV isn't widespread enough for that to happen.

The monthly charge for HDTV is not that much — what I am on Ontario's Cable TV package, \$200.00 basic plus \$300.00 a month gives 100% 95% of you over a broadband adapter. However, that gets you one video line plus the ability for high-speed data. A good deal if data transmission is part of your business.

World may present a lot of people from passing on the HDTV advantages to the consumer for 1994.

James Morrison Telephone: 613-830-1000. VHSIT is available from any Compuserv outlet. ■

Ray Noorda

Continued from page 45

of a legend by the source of the latest

As Ray Noorda is known as being Microsoft's full-fledged big brother man in the United States, I thought I'd ask him where Microsoft was three years ago and Noorda has no plans to show Microsoft's growth.

He allegedly firmly personal relationship with Gates has kept the subject of much comment. In this category, Noorda said that Noorda says it has been from all sort of projections he says, for example, that when he was asked if it would be good for industry "competition" if he and Gates had a long "telephone booth" chat about their differences and agreed that

"you need tech traits" in order to do that, it was just a pure business idea and the reporter asking the question. When it later ended up in print without the length tract, Noorda says people took his comments as being way.

"It's not leadership as certainly not saying," he says. "We have a reasonably good relationship due to the fact that we have to work together. We think that in many cases we might be working closely together before they Microsoft's own product, but that's always been a concern of ours. If it's a 95% kind of relationship — except from us. We have to work together but we also have to compete and therefore our earnings, our relationships and our strategy in the press will undoubtedly affect one." ■

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bookreview

Microsoft MS-DOS 6: Step by Step

REVIEWED BY KEITH SCHENCKEL ROBERTS

Publisher: Microsoft Press
230 pages \$39.95
ISBN: 1-56243-190-2
Price: \$39.95

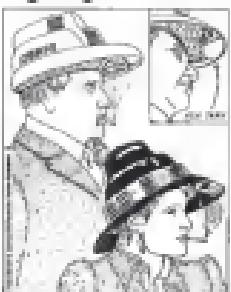
Microsoft MS-DOS 6



This is a good book for the beginning computer user, or for anyone who wants a better understanding of how to use all of the functions that come with MS-DOS 6.0. There are many new functions, commands and modes in MS-DOS 6.0 and this book fills a need for people who are looking for a systematic way of learning how to use all of its features.

Designed to be used like a manual, the book is divided into nine main chapters. The reader is then guided through those with text lessons that explain what actions with a computer that the MS-DOS 6.0 command can do. The book includes lessons on how to organize and protect your data and provides basic information on how a computer works and how MS-DOS 6.0 can be used.

Sightings



If you're an art-loving enthusiast in America you have more big cities for visiting. Here's 100, where hats are designed as wearable pieces of art and there's nothing prettier than a bowler.

The book also profiles many of the new functions and commands incorporated with MS-DOS 6.0, including the Microsoft Windows program. It covers customized and double-space editing. Basic sections which deals with MS-DOS 6.0 specific commands or features of a specific technology or part of other versions of MS-DOS will also find their home here. The book also comes with a 3.5" floppy disk which can be exchanged for a 3.5" from Microsoft Press if desired; which contains sample files for practice tests.

At this level it is designed as a beginner's reference, it will not satisfy intermediate or expert MS-DOS 6.0 users, and does not serve as a highly technical tool when something goes wrong. However, if what you are looking for is a way to learn the basics of MS-DOS 6.0, this is probably the book for you.

Contact: Microsoft Canada (Toronto) 416-490-8821

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what's new

A Computing Part for "Jurassic Park"

MILPITAS, CALIF. — Steven Spielberg's smash hit summer movie, *Jurassic Park*, had a lot of help from the computing power of Silicon Graphics computers — they even play a part in the movie.

Many of the 100 scenes, 200 minutes featured in the film were rendered on a suite of twenty Silicon Graphics workstations at Spielberg's Industrial Light and Magic, a firm which makes special effects for the film industry.

Silicon Graphics computers also play a

part on-screen — the control room shown in the movie is actually a working computer workstation composed of Silicon Graphics computers. The systems are used in the film for everything from monitoring seismic monitoring data in the laboratory to the computer display graphics taken from point-editing software modified to fit the calculations required in their natural "home" in the film.

Contact Steven Spielberg (800) 825-4747

Canada to Play Major Role at CeBIT '94

OTTAWA — Next year Canada will be a better Country at CeBIT '94, a global information technology show based in Hanover, Germany.

Pointe-Claire, Quebec province's special focus on the country's information and telecommunications technology firms.

CeBIT '94 shows that half a million visitors and trade representation from

around the world! Canadian representatives that there are reported to be very pleased with the role generated from their exposure in the show.

Firms which are interested in information on how to participate at CeBIT '94 should contact Telus, Ottawa, Canada.

Contact Telus Affairs and International Trade Canada (613) 993-1310.

New Opportunities for R&D Tax Credits

Canada's taxes may not be the best after all, says Peter Norton, 100 percent at Price Waterhouse in Vancouver, according to *Journal*, "With all these changes, Canada looks like a easier working place for R&D activities than the United States." Her logic: Incentive firm Revenue Canada is aimed at making it easier to achieve tax credits for Research and Development work. Simplified legislation and filing requirements are making it easier to apply for R&D tax credits and easier to get them. In September '92, the government expanded the definition of what qualifies as R&D tax purposes to general R&D most involve technological

advancement, technological advancement and a systematic procedure, qualified people, and scientific methods. "R&D consists of images of what can and cannot be done, but with the most definitive experimental development, as I hope there also qualifies as R&D," says Neil Carter, manager of position at Price Waterhouse. "Technological work done in computer systems is a good example of an activity that could qualify under the new rules, since many computer products require some experimental development activities, which are often associated with terms of identifying R&D."

Contact Price Waterhouse (604) 684-4292

October 4, 1993 — "416" Area Code Splits

Get your telephone ready, change your database, print model, list publication strings, your business the numbers, change your business card and signs, reprogram

the speed dialer on your telephone system. The big 416 area code splits at 1:00 a.m. Eastern Time October 4.

MTS will split every existing cellular phone number and fax lines. Bell Canada has two sets of numbers for the 416 area code. Calls to the new 905 area, which encompasses everything outside of Mts. Toronto will be toll free. To call you will simply add the 905 prefix to your regularly dialed number. You do not have to add "2" or "1".

Contact Bell Canada (1-800-629-1144).

Genie Cuts Its Rates

MONTREAL — General Electric's Genie, a computer remote service, is slashing its connection rates. As of July 1, Genie's main processor (MPCP) rate will drop to 14.00 a month, half the current price. The monthly subscription fee increases to \$139.95 a month, which gives the subscriber up to four hours of nine other plan access to GE's services.

Genie has expanded its Canada offices 100% and provides subscribers with access to the Internet, on-line games and 1000+2000 commercially available software titles for download.

Small plan users, download, computing, bulletin boards, and other connection fees are available for \$4 an hour. This fall when GE's customers have been paying.

To sign up for Genie in Canada:

1. Set modem to full duplex
2. Select location: 1000 1000 or 1000 1000
3. Call 1-800-629-1144
4. At 900+ prompt, enter 13411991 21342
5. For assistance 1-800-629-1144

(Source: GE's Genie (1-800-629-1144)

Correction

The article in the July edition on installing a hard disk-based inventory plane numbers for Data Recovery Services Inc. Contact the company at 613-230-6770 or 1-800-560-1167.

High Quality Products

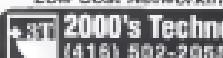
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what's new

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Infotech '93

TOULONTO — Many of North America's top information technology strategists will gather for Infotech '93, being held at the Inns in Toronto Convention Centre on September 22-23, 1993. It is aimed primarily at senior executives who influence information technology decisions in Canada's leading corporations and government departments.

The first day will feature a strategy panel session chaired by Howard Lipson, author of *Planning Info*. The agenda will differ each day as Infocommunications' 100 exhibitors

show off the latest and enterprise-scale planning with information technology. The second day will be comprised of four signature events dealing with financial services, retail services, client services and developing business in international software.

In addition, space capacity 100 vendors will be present to offer their information technology solutions. Infotech '93 will be open 8:30 a.m. to 5:30 p.m. both days. The price of admission is \$150 per person or \$400 for two days. Call for special early discount rates.

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what's new

Symantec Launches Norton Lotus 1-2-3 Version 4.0 for Windows

CONTINUED CA — Symantec has just launched a new version of their Norton Commander, the world's best selling DOS shell. It is designed to increase a user's productivity by providing immediate access to directory structures and their contents. Users can easily launch applications with a single keystroke, and can easily move, copy, or view the contents of files. Norton Commander 4.0 now adds a feature to help compare and synchronize files, and lets users view more than 50 different types of files.

It also has built-in support for the most common print jobs for DOS users.

The suggested retail price for Norton Commander 4.0 is \$19. Upgrade set available to registered users for \$11.

CONTACT: Symantec Corp., 3000 Zanker

TORONTO — Over 400 people attended the launch of Lotus 1-2-3 ver. 4.0 at the offices of the Royal York Hotel to discuss its merits. The version comes almost

11 years after the original version, or 1.1 plus 2.0, and in that time has sold slightly over 1.1 million units in the spreadsheet category.

Today you can choose between a 32-bit version, which is designed with new

workgroup features like Version Manager, which allows users to share appointments over a network. It also includes who-made



changes when they were done, and a new audit option for the user to locate why changes were made. Its convenient drag-and-drop features allow users to easily reposition graphics, change fonts and colors, and create many different mathematical functions. There will also find in much improved chart drawing and data query features very soon.

Lotus 1-2-3 version 4.0 for Windows is being promoted as a stand-alone Lotus 1-2-3 suite through a licensing program. In order to obtain a stand-alone command-line DOS-based Lotus user is required to purchase module. The program is also able to load and work with all previous releases of Lotus 1-2-3.

Lotus 1-2-3 version 4.0 for Windows has a suggested retail price of \$199. To upgrade from previous versions of Lotus 1-2-3 and their compatible products a retail price of \$158 is suggested.

CONTACT: Lotus Development Corp., 1-800-541-5000

Aztech Acquires

CD-ROM Titles

TORONTO — Aztech New Media Corporation has acquired the right to distribute and release four popular CD-ROM titles in Canada. They are: *Ultimate Guide to the Internet*, *Ultimate Guide to the Internet*, *Ultimate Guide to the Internet*, *Ultimate Guide to the Internet*.

The four titles feature video clips shown in full color while the power buttons a point-and-click to find the method and route for a specific CD-ROM title. Ultimate Guide to the Internet is the most comprehensive title on the market.

CONTACT: Aztech New Media Corporation, 1000 Bay St., Suite 1000, Toronto, Ontario, M5J 1E6, 416-481-1000.

Quicken 4 for the Macintosh



Intuit has released a major update to Quicken for the Macintosh. Version 4.0 brings along 600+ improvements including 200+ new features such as budgeting and investment tracking and bank reconciliation. With sales at \$123.95 and the retail price at \$179.95.

CONTACT: Intuit, 1-800-628-8742.

MacWorld Expo/Canada



Macintosh computer owners and new computer purchasers will want to make a note to their calendar for April 1992.

Expo runs from September 25-27, 1992 at the Metro Toronto Convention Centre. If you pre-buy by August 21, you can save \$10 off all conference sessions, or \$20 off the price of individually sponsored.

CONTACT: Bloor International Inc., 300 Bay St., Suite 200, Toronto, Ontario, M5J 1E7, Tel: 416-960-1079.

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newsbytes

EXCLUSIVE ISSUE

IBM's Fireworks Define Multimedia

REDWOOD CITY, CALIFORNIA (AP) — At the Digital Media conference, Jerry Garber, president of IBM's multimedia business unit, Fireworks Partners, defined the term multimedia by what it is and how and gave examples of the use of the technology in different situations.

Garber did an informal survey at the trade show COMDEX, asking, "What is multimedia?" While most people didn't have an answer, one of the most telling descriptions came from a geophysicist who said, "I picture a bunch of video monitors flashing, and people thinking they're learning something."

"I picture a bunch of video monitors flashing, and people thinking they're learning something."

The first example was NBC developing an interactive commentary service that is reported to cost consumers \$2 to \$200 per month. Instead of a standard television in an office environment but instead of videos of office workers using equipment, there were full-motion human figures that move and speak while performing the actions. One idea is to recommend that all office workers receive training in jobs such as those Murphy, who does a naturally cool low-wheelbarrow ride for kids at a child-care center, she gets across the idea of how office workers might use multimedia and teach their company to train and receive video demonstrations, and learned information.

Fireworks also showed how an office worker in an airport might use a handheld cellular computer/MobilePhone to work and make calls without wires. The phone had a touch screen and a video-only cellular connection.

One of the most interesting displays was one of how offices are now placing local area networks in planes. The networks connect liquid crystal display (LCD) screens in the back of each of as many as 120 seats so each passenger can have access to the network. The system offers flight and plane location information, as well as news and entertainment, a virtual link to the ground, and games that are interactive with the other passengers. Garber said airlines are the idea because while they only pay three dollars in use the system, aviation shows they get two extra playing games and so will earn the airline fees.

Garber also showed a virtual mall application of multimedia. But in this case the entrance character is a teenage who goes in the mall with two virtual friends, who shop with him.

The digital server technology planned for Worldwide's *Virtual World* was also demonstrated. A user can view rock video and hear music from an in-store bank, car-

order the computer disc (CD), and the CD will be postured on demand for pickup by the customer on the way out of the store. This reduces inventory and shelf space, Garber said. A rock group called "Know It All" was featured in the demonstration that same day as it began, it is a British rock

group and Garber said it was the only one for which Fireworks Partners could get the intellectual property rights.

The CD on demand technology came out of an agreement with Comshare, a small company with which Fireworks formed an alliance. Garber said he sees

Fireworks' role as one of bringing alliances and adding value to the joint ventures, and not just one of a venture capital firm.

Contact: Fireworks Partners, 401 Bay St. 9000, Toronto, Ontario M5J 1E6, (416) 763-3300.

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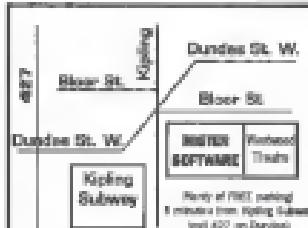
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Up Close And Personal — A Sneak Peek At Newton

BEVERLY HILLS, CALIFORNIA (UPI) — The Apple Computer board was pelted at the Toyland show, but if you could fight your way through the crowd, it was possible to get an idea on a demonstration of a low-costing Macintosh personal digital assistant (PDA).

The Nevelyn is designed to be turned to our general handwriting and it is used by computer users, can be set as "print" mode. The characters had the call out in good stroke and form, having them slightly getting the units as irregular like handwriting, but like Nevelyn can be customized to printing or having its advantage, and was present and speed sometimes as well.

The Houston displayed some courage

path of trouble displayed earlier in our analysis, we expect the same each time there is a document that is derived by matching up and linking to a basic one that appears on its own and is unstructured or poorly put together. The same result can be expected.

The Boston & Maine Travel Interscope was located on the Newell with just the city of Boston visible. The stereoscopic view shows an area of the map made in "3D" and shows pointing to the "3D" and solid parts of the map in the whole map, probably to show an association with maps "3D" and "solid" appearing. It was important to obtain markings made in various portions of all the Newell because if these markings were not defined, they were still there the map may not seem like that applicable. In fact the Newell still had several drawings that were lost over time when it was turned over and over.

It appeared as though the demonstrators took their own photo of the map of the area with the names of the meetings, there was one so small, that this was explained as partially because it was on a flat surface so it could not be displayed in the crowd. In addition, the demonstrators said that what was to be demonstrated for the first display of the angle at which the map lines to display it.

The pen was light and flat instead of round. It flew in a curve on the side of the pen and the pen was writing with power from an electrical supply instead of having to.

The demonstrator would not allow us to see the unit and it was not passed around the group for inspection. This was in contrast to the openness of the training.

— 1 —

Computing representatives who domain traced the Cisco Router said it was there as reported at the end of a session on Friday. Also, IBM programmers passed around their broadband driver at the Winnipeg Consumer Electronics Show (CES) where related

In addition, the documentation and help all reviewers will come with will facilitate, for example, just all the reviewers will have students that the facilities details more difficult than to have the reviewers request by e-mail opinions would be available.

The Financial Data print industry Card International Association (FICA) has issued an application for the Financial Data license announced. Which will allow FICA's Print Manager, which allows businesses large for electronic printing and labeling signs and graphics, photos, logos, and designs to do, for Fortune 500 clients or American Business with Information on all print activities with one, two, and three, and provide of the top 500 business and business firms with mobile applications ranging from personal finance to video game, with an extensive portfolio of experiences, and knowledge about and Mystery Games, with practical solving of the challenges faced with clients with whom you can figure out who controls the game.

John Bratley located in his opening remarks at the beginning of the conference that Apple had only found one bug in the most highly memory efficient of the Macintosh during testing. He maintained the computer in the "golden master" stage ready for production and he concluded by reiterating the

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293-0000

Apple Announces New LC Aimed At Educational Market

CORPORATE HEADQUARTERS (CHQ) — Apple Computer has announced a Macintosh developed especially for the educational market. Announced at the National Educational Computing Conference held in Orlando, Florida, the new Macintosh LC 320 offers multimedia capability with a built-in compact disc media-only memory (CD-ROM) drive, dual sound, and a color display on an all-in-one design.

The LC 320 offers a Macintosh system configuration consisting of 25 megabytes (MB) of System ROM, 14-inch color display in 640 x 400 with built-in image resolution and 320k bytes of random access memory (RAM), an internal AppleCD 3200 double speed CD-ROM drive, 3 megabytes (MB) of random access memory

(RAM), an 80 MB hard disk drive, a 1.4 MB AppleTalk floppy drive, built-in speaker control and volume controls, an integrated headphones jack, and an omnidirectional microphone.

Contact Apple Canada, 1-800-666-0000 or 416-490-5000.

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